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#### A SELECTIVE MICROFILM EDITION

PART IV (1899–1910)

Thomas E. Jeffrey Lisa Gitelman Gregory Jankunis David W. Hutchings Leslie Fields Theresa M. Collins Gregory Field Aldo E. Salerno Karen A. Detig Lorie Stock

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Thomas A. Edison Papers

at Rutgers, The State University endorsed by

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The original documents in this edition are from the archives at the Edison National Historic Site at West Orange, New Jersey.

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#### Edison Ore Milling Syndicate, Ltd., and Related Companies Standard Construction Corporation, Ltd., Files Correspondence (1903)

This folder contains correspondence and other documents relating to the work of the Standard Construction Corp., Ltd. Most of the letters are to from Edison and William Simpkin, chile fengineer. Included are numerous drafts in Edison's hand. The documents deal mainly with the design and construction of the Dunderland works and operations at the Edison Portland Cement Co. in Stewartsville, New Jersey. Several documents pertain to briquetting, including reports by Simpkin and Professor Henry Louis. Also included are references to Edison's meetings with Simpkin in Florida. Some of the letters are accompanied by drawinos.

More than 90 percent of the documents have been selected.

Standard Construction Corporation Simited,

LLETTERS SHOULD BE ADDRESSED - Titzalan House, Arundel Street,

TELEGRAPS: STANCOLLI.LONDON.

London, w.c.

No: 17.

fanuary 2, 1903

THOMAS A. EDISON, Esq.

Dentto Hanter

Dear Sir.

Mr. Hall is mailing you to-day a blue print chowing the many points in the Crushing Rolls which I think in your interests, and in the interests of the Syndicate, ought to be protected in this country, as I see nothing in the Patents Specifications which have been handed to me by Capt. Pollen covering some of the specific parts shown on the print and described in the accompanying specification.

I have only carried this specification out in my own words, leaving it to the Patent Attorney to put it into proper form and leaving it to him also to put the claims in, in a proper manner.

If you think I have covered all of the points worth covering, please to cable us and the matter can go forward, but if you have any additions, alterations, or suggestions to make, kindly let us have these at your convenience.

You will note that I have shown two ways to secure the plates to the Roll Centers, - one the manner which we are at

present using, and another showing studs and nuts, not that I think the stud and nut is any better or perhaps not anything like as good as the manner which we are now using, but it is simply put in to prevent others from using a similar device.

It is not quite certain yet the exact day on which I shall leave here to pay my expected visit to you, so I will write you later or cable you with reference to this. Trusting you may have a very happy and presperous year, I am,

You're most sincerely,

Win Simplin .

Orinta over ain they and of for

Standard Construction Corporation Similed.

LL LETTERS SHOULD DE ADDRESSED:-

Titzalan House, Arundel Gtreet; London: w.c.

TELEGRAMS: STANCOLLI, LONDON,

January 9, 1903.

H. E. DICK, Esq.

Dear Mr. Dick,

I have just received your cable saying that Mr. Edison leaves for Plorida on the 20th Pebruary, for which I am greatly obliged. There are a great many things which I wish to become accomplished facts before I cross and as Mr. Edison will be in Orange up to the 20th of next month I shall delay sailing until the end of this month and this will enable me to complete what I have in hand and also enable me to bring with me a great many more drawings so that I can thoroughly discuss the whole of the layout with Mr. Edison.

I have just returned from Merlin where I have been taking up the matter of the Generators, etc. with Mr. Bergmann. He has I think written either you or Mr. Edison that the Contract for this work has been placed in his hands. I am sure that this will be satisfactory news to both of you. This was not done without a considerable fight as some of our friends here were very anxious that the contract should be placed in this country and particularly one who is very much interested in the British

Westinghouse - it is not necessary to mention names. However, knowing that you and Mr. Edison were desirous that this contract should go to Mr. Bergmann, if it could possibly be managed and his prices were such that it would not be detrimental in any way to our Company, I took it upon myself to urge this matter very strongly with the result as stated.

There is going to be a big fight over the magnets and when I come over I shall discuss this matter very thoroughly with Mr. Edison and probably have a few suggestions to make which I think he will agree to. There is one thing in favour of placing the magnets with Mr. Bergmann and that is it will at once enable ue to comply with the German Patent Law by having the magnets manufactured in that country.

When I have decided the exact date on which I shall leave here I will cable Mr. Edison so that you will know when to expect me. Everything is going on very well and we are making good progress.

Yours very truly,

Wm Simpskin

: Standard Construction Corporation Limited,

LL LATTERS SHOULD BE ADDRESSED.

Titzalan House,Arundel Street; London/w.c.

TELEGRAMS: STANCOLLI LONDON.

January 20, 1903.

H. E. DICK, Esq.

My dear Mr. Dick,

I have your favour of the 8th inst. and notice that you will be sailing on the 7th of February. I understand however from Mr. Hall that the other day he received a cable from you in which you said you would arrive here on the 20th February, so from that I take it that you have changed your mind and that I shall see you, as I hope I shall, in Orange before you sail. What is keeping me is this, that I think it absolutely imperative to place the order for the structural work of the buildings and conveyors before leaving here and take advantage of the now existing low prices. I have been watching the market very carefully all along and in every case so far have been able to come in and take advantage of prices and I am satisfied if I had not been able to do this we would have been obliged to pay much more for our work than the prices at which so far I have been able to make contracts for the work which has already been let out.

I am bringing with me details of everything which I have done so that you and Mr. Edison can go over it with me, and I am satisfied it will meet with the approval of the both of you. I shall leave here on the 31st inst. or the 4th February and will caple Mr. Edison the day I sail so that you will know when to expect me.

With best wishes, I am,

Yours very truly,

Win Samplin

SLCLT

Standard Construction Corporation Similed,

. Titzalan House, Arundel Gleeti Lind*en;* w.c.

TELEGRAMS: STANCOLLI, LONDON

January 23, 1903.

Dear Mr. Dick,

Replying to your favour of the 13th inst. would say that when I come over I shall have with me the whole of the specifications for all of the work which we have done up to the present, including of course the specifications and guarantees on the motors as I intend to discuss very fully the whole of this with Mr. Edison.

It looks now as if I shall be able to leave sometime between the 31st and 4th but I cannot tell at this writing as they wish to have a special meeting before I go to give me some instructions of which at present I don't know the alightest thing.

Trusting I shall have the pleasure of seeing you in Orange before you leave, I am,

Yours most sincerely,

Win Sumplin

Letter Nr. 16

Mck 24 1903

I have gone all over the 6 succord books of Coment runs and have got things pretty with worked out, 2 will send results of what when I go north but thought I would send you briefly some conclusions.

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shought the pressure for square inch is allowable too high every greats were on dear pitch line-but they never stay there and on a 25 HP Conveyor I think length of pinion should be at least too inches not for shought but for diministrate pressure of there whould be good of Casing - They drive with which finion meshes can be quite light on the which finion meshes can be quite light on the concept to the Conveyors with heavy pall out military. These Conveyors with heavy pall out military is a premium must be abnormal-

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5th Look out for Excessive pressur

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the twice the number of side quide retters wanted on nothin of Conveyor better cits these reteis ought to be two unches longer -

Sthe Treddy or have made several floxible Couplers at our little Laboratory. If have one now that is perfect will one you chawings from Cement works

9th you remember we had a sproket wheel and 3 Highs to choose relient feed we are going to willing this to repedite parting in chear some from which a great less of time is how to a free to be a part of colored and a period on shaft of when we put a worm relient by a pin in chain we connect quickly to have to have something like this to thus to have something like this to

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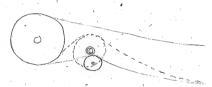
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: Standard Construction Corporation Limited.

ALL LETTERS SHOULD BE ADDRESSED: ENGINEERING DEPARTMENT

Titzalan House, Arundel Street,

TELEGRAMS: STANCOLLI LONDON.

No: 18.

April 7, 1903.

THOMAS A. EDISON, Esq.

Dear Sir,

Since my arrival here last Tuesday I have been very busy going over the work that had been accomplished during my absence and am now taking up the revision of the drawings of the Fine Grinding Rolls which we discussed when I was with you in Florida.

I find that without going to a big expense it is hardly possible to make those Rolls so that we can change at will the number of sheave pulleys on the ends of the shaft. The Rolls as designed are intended for six ropes, as por your original instructions, and if we arrange these so that eight ropes can be used, you will readily see that it will necessitate a new spreader as the centers of the take off ropes on each side will be two pulleys wider and also the angle will be changed.

With the Rolls at Stewartsville, supposing we have a pressure of 50 lbs. per square inch in the cylinder, there will be with eight ropes a pressure of 1440 lbs. on each end of the

shaft; with the 10 inch cylinder, such as we have designed for Dunderland, with 80 lbs. pressure, there will be with 6 ropes a pressure of 2.26101bs. on each end of the shaft, so that we must either decide that the 6 ropes are enough or we must change to 8 ropes and keep it at that.

On the Rolls at Stewartsville we have 9/16" ropes with 36" pulleys, and on these for Dunderland we can put 2" rope and have arranged for a 48" pulley.

I feel sure that the 6 ropes will be ample for all our needs as we can readily increase the pressure in the air cylinder if necessary, and will not make any changes on this line until I hear from you.

With reference to the enlarging of the blocks between the bottom and top girders, - would say that we had already given this matter a good deal of attention. From the rough sketch herewith you will note that in the Stewartsville Rolls the distance between these supporting blocks is 11 ft. 11½ in. and that the blocks are only 10° square - the top girder being secured with only one bolt passing through the center.

In making our design for the Dunderland Rolls, we have reduced the distance between the blocks to 9 ft. as you will also see on this sketch, and enlarged the size of the blocks to times. Is  $x \le 15^{o} + 0.00$   $\chi = 10^{o}$   $\chi$ 

with four separate bolts as well as the large center bolt; at the same time we have increased considerably the strength of the lower and upper girders and anticipate ne pinching from the spring of these girders.

I think these blocks are amply large enough and strong enough for anything, and I do not want to increase them as it will interfere considerably with my design for carrying the spreader which carries the take off pulleys, and any change of design such as suggested, i.e. making the lower part of these blocks longer, will of necessity make a design for this spreader and brackets which to my mind will not be anything like as mechanical and satisfactory as the one we now have.

We have given considerable study to this matter and will shortly send you the full details and when you get them I think you will agree with me in all I have written.

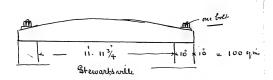
On my return here I found that everything had been going along very nicely, and about the early part of May I expect to be in Norway and commence work on the excavations, foundations, etc. for the various buildings.

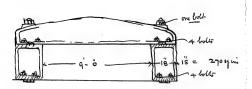
Trusting you are well, I am,

Yours very truly,

Vom Sumprim

# [ENCLOSURE]





Standard Construction Corporation Limited,

ENGINEERING DEPARTMENT

Dear Sir,

Titzalun House, Arundel Street, (19) put on by London, W.C. April 8, 1903.

THOMAS A. EDISON, Esq.

I enclose you herewith a description of the direct connected air compressor of which I was speaking to you.

have no figures as to the cost of same but shall be pleased to get them for you at any time. Would say that the machines are well built and are giving great satisfaction wherever they are used.

Yours very truly,

We recently had an opportunity of winessing than of the formation was of description from all communication in the formation of the formation

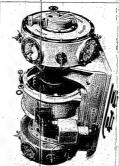
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[ENCLOSURE]

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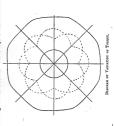
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Standard Construction Corporation Limited,

Titzalun House, Aundel Greet; Lindon/w.c.

No: 20.

Dear Sir,

A. EDISON, Esq.

Henter

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There with office

There willes.

Your valued favour of the 30th inst. to hand this? morning and very carefully noted. I will take particular care that your suggestions are attended to and in this connection would say that a great many of them have already been taken into consideration in getting out our designs.

With reference to having some arrangement to move the shaft quickly on the Fine Grinding Rolls so as to get in the shear pins, would say that this will be accomplished very readily by our barring mechanism which it is my intention to put on the Fine Grinding Rolls as well as the crushing plant rolls.

I wrote you the other day with reference to the blocks connecting the top and bottom housings of the Fine Grinding Rolls.

I note what you say with reference to the securing of stud bolts and agree with what you say absolutely.

On all conveyor belts we have arranged to bring up the first idler next the head pulley as high as possible so as to get more surface for the belt and are using an extra heavy shaft with the regular self-oiling bearings.

With reference to the gunny chambers for motors, would say that we have no small chambers throughout the plant. In every place where we have a motor it is in a large house which can, if we wish, be made absolutely dust proof and connected with the outer air for ventilation, so that I am not anticipating any trouble whatever from the heating or sparking of motors from dust. This large chamber or house also gives us ample room for working around the motor, removing armature, etc. This is a matter to which I have given the greatest consideration, and I think when it is your pleasure to go over the mill after it is running, you will find that all these points have been thoroughly attended to.

With reference to the electrical scheme for operating the plant, I will shortly send you a drawing giving a general lay out of the buildings and the location of each motor, so that you can advise me with reference to the wiring, starting, stopping, etc.

I have been trying thin copper washers in place of the raw hide and they are a success. I wish you would try a few up at Stewartsville in the worst possible places and let me know the result.

I note particularly what you say with reference to the setting of the motors, etc. and it coincides exactly with what I am going to do; and another thing, particular attention will

be paid in the putting in position and securing the motors so that there should be no trouble from getting out of line.

We are just working on the fans for the blower houses and I am pleased to get your note as to the strength of the fan shafts.

With reference to the drawings for the briquetting furnace, I have been asked by the powers that be over here to hold up on this matter for the present.

Yours very truly,

Um Simpkin

### [APRIL 18, 1903]

very 600 though hour They have Gent

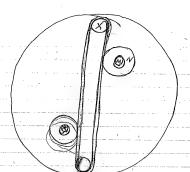
dust the dust burnt on Commutations + the dater are worn out a maters worseked There was such a terrible congestion & look of an space that nothing could be prevalinged done to one them the Blown plant, Had WE BOD as Little Everything want brown hear year I am compelled to use a operfect - put notons beliven roller fred + Blowers this permits ace thotons being Long Continuous grunny Chamber between the dust 6 ms or around the Good of le the penions of course the ample for strongth but The pressure loaded Conveyor have teeth worm on thered the way through, Consequently the Vebration Brushed Could not be Kept on

3

The jumping of the brushes produce sprike at these heateld Committal on so that the maximum Capacity of a 25 HP hotors got reduced to twelve of the they had shut point mice down to Coop on top of Rock otock the ohaking of the Structure was tweens to -+ they had got out plans to belt down to a motor at the South . I put a wider grand with puren between bearings put in new flex 66 Coupling - + was howe Vosen running Mixing belt for Deveral days The motor is defected to force Capacity it has Mether opark or jan + the structure only teococres a small par from the wear on the althoughing of this would go out if it had been willer -How long before you will send me drawings so Frank put and the final OR Havnt wood a single one that is fund as yet. are you sure that you have enough men in your draughting Dept, 9 fear you are going

to get into a hole Gefore long—

It may be possible that the Materia on the 3 things and Crucking blant ralls well need flexible between geaning & shafting to prevent share ubration whose landing the trucker = D WE have Tried acreral flexibles on our smaller Motors of house one that wake part of the third so perfect we are making one for the third 36 meh Roll, on Materia it is marke thus



Sixteen diameter, mak quarter più X - Wheel

Nis two half inches più M inchi gnanter The belt is donale & stitctiol all around

Edges by harmes water the with on

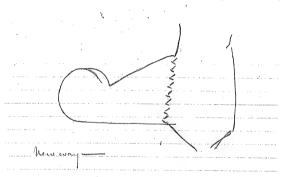
25 Horspower is two & half inches The clists are turned all over & balanced

When Shafts out true the coheels run upst

down belt & home the Easier they run

up y down the loss do so the vibration
was gots mater with the one now
generally used there is considerable
unbritish dirammateled of it to very
unvalue acting. The following is
generally used in this Connect.
It does not adde croy enough

I have Barnes have Experiently and Tung Chambers two wellson be seedy to give you guee dalay Could you arrange Blowers so there is a - que ale haylith for boffee plates it would



To there is a great difficulty in making a writer penal a green casing and bearings.

50 oil in Casing will ail bearings.

Jook out for this—

WE are changing Exhauster from top
of Dryer to Earth on Concelle averas
the undline of running a Downcomber
pipe from top Dryer to Exhauster
fulling in a Cyclone dust Calcher

and by use of a 12 meh scraw at ,
6 octom clean out dust catcher.
cet intervals + depositing it on 102
Conveyor - The Cargeotian, heat
Vibratin was loud at top of Drya -
We have transle with Gollan beets
ref Conveyors running to one side also
of the suffer the custon the whale langth
of the belt - The ofers should Extent
way down clare to book & also 62
higher of 62 Every 50 It apart on
6 adlan or return orde The top we have
very little trable with
Edeser

: Standard Construction Corporation Limited,

ENGINEERING DEPARTME

Titzalan House: Arundel Gleet; London; w.c.

No: 21.

April 22, 1903.

THOMAS A. EDISON, Esq.

Dear Sir,

We are mailing you under separate cover a complete set of drawings for the Fine Grinding Rolls which have been carefully gone over since my return from the States, and in which you will see that we have incorporated the suggestions made by you. In this connection I would call your special attention to my letter to you of the 7th inst. with reference to the various points we had discussed.

We have not yet received final bids on these rolls from the various parties to whom we have sent the drawings, but from what we have received I feel certain that they om be bought for 5 cents per 1h.

We also mail you drawings showing the lower set of 5 ft., that is, the spring rolls, and you will find on these that we have increased the length of the tension rods which go through the two bearing housings as suggested by you, making them long enough to get in six 1; white pine washers, putting three on each side or putting them all on one side as may be found most advantageous.

You will please note the change also with reference to the wobbler,—the part that is keyed on to the end of the moving real being turned down so that we can draw out the bearing bushing without being obliged to take off the wobbler end, as this end will be put on with a good press fit. You will notice the groove also turned in this wobbler end and this is to be used in clamping on a pair of clips when it becomes necessary to take off this casting.

We have not yet completed the drawings for the hoppers of the crusher plant embodying your latest suggestions, but have them well under way and will forward them to you shortly. I have no idea as yet how much this work will cost but will let you know after we sond out the drawings.

When in the States I gave you the price at which we had contracted out the Giant Rolls, the 5 ft. rolls and the chilled plates. The Giant rolls cost 4.08 cents per 1b.

The 5 ft. Rolls " 4.18 " " "

The chilled plates " 22 " " "

I will have complete statements made for you from time to time giving the exact weights of each machine, etc. and the exact costs of same.

With reference to an elastic coupling, I am going to investigate one of which I have heard and of which I am told there

are over 200,000 HP. in operation varying in size from 5 to 500 HP. and which are being used for all sorts of intermittent and steady work. When I have found out just what this coupling is and have seen them actually at work, I will make and send you m understandable drawing.

I have had made and mm now testing some sample idler bearings - one of which I will shortly send you just so soon as my tests are completed. We think they are first class as they embody the best features of our old idler bearings and many new features which make them.much more mechanical and much more satisfactory.

Yours very truly,

Win Singskin

Denghins — We would so prompter to the best when the file of continued on the service of the ser

We beck Those beg betts of yours will want

Regarding The pinion & appear of water drive on

40 ft solnek at boat

Letter 18

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week on 104 mixing belt night & day with heavy load- We are compelled to adoud on
the deservas it as now arranged that is
with person underseath as we have no room to
Can never 6s date fied with that the pinion
want pulch line - WE are designing it so
peniar is on the side and The width of peniar
co to 62 10 inches - The 42 contet now pinion
after the weeks cook 65 mg so word that the
join had become perious. There is god pounds
breauth on look
when you receive this letter kindly a change ledge
When you receive this letter knidy acknowledge that you have receive bliomy letter #18 dated april 23-1903 and oblige-
april 23-1903 and oblige-
The second secon
And the second s
and the second of the control of the

### [APRIL 24, 1903]

Dimphin - Dolg of the right

Thing to get 6 ite on Conveyor tells

Thing to get 6 ite on Conveyor tells

Thing to get 6 ite on Conveyor 104, with

275 Tom ive can start the landedbelt from a state of reast 9 hours a

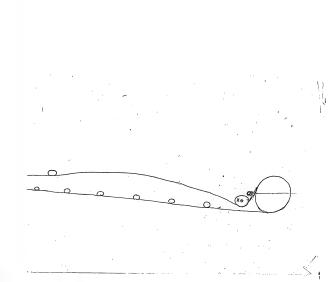
donable obeft running the mixing

belts night a day so as to cettle

once for all. The Hendle Motor,

quana and 6 ite of the belt,

The plant is thus



X to the regular orgod idea but with the beauty of off. The reason the grup on throw purious or great is that the increasing are uncreased grup in a few operation that the increasing are then the stronge in a few operation to bet the beauty the beauty of the security of the severe out the rubber order. Whe are making a 20 mch offer with the our Clest of our require self Orling bearings.

## [ATTACHMENT]

andeze. From print of the fine took rolla I law just gove over, I find some of the suggestion I have note in my sotten love at been followed out, and I fear you may not have received any of them, so I have about had exper work y soil latter, which sent you regulared muli - and I legited you will Scrafter adomntedy recorpt of each letter I

Standard Construction Corporation Limited: no n somens. — Titzalan Huse: Aundel Street;

ENGINEERING DEPARTMENT

No: 22.

May 2, 1903.

THOMAS A. EDISON, Esq.

Dear Sir.

I have your favour of the 18th inst, fand note that you are preparing for me a full inspector's report and other records. I am not surprised at the trouble you have had with the shafts of the blowers; if I remomber rightly, the bearings are shout 10'6" apart and the speed of the blowers has been almost doubled from, what it was originally intended to be. I have been working for some time on the drawings for our blowers and shall shortly send them to you and you will find that the bearings are about 7'10" spart, and the shafts 3 15/16, whilst an ample baffle arrangement is provided with an adequate fall for the material on to the first plate.

With reference to the gunny chambers, would say that in the Dunderland plant we shall not have any small gunny chambers. In every case where we have a motor, I have a large room varying in size according to the motor from 1500 to 3000 cubic feet, with plenty of room to get around and in every case arranged for free access of air from the outside. I have given this matter very particular attention and as I am working out the designs under somewhat more advantageous conditions than with the Coment Mill I am able to arrange this work in a better manner.

With reference to the gears, I recollect that the face of the pinions on all motors driving conveyors on the Cement Plant is 4½"; with the Dunderland, all motors up to 50 HP. will have pinions 6" face, and those of 60 HP. 12" face which I consider very ample.

I do not anticipate any great vibration where we have to place motors in the roofs of the buildings as the whole of the structural work is at least 33 1/3 per cent heavier then at Stewartsville and besides being strengthened and specially braced where motors are carried; besides this, there will not be a single over-hanging gear in the whole of the plant.

With reference to the flexible couplings, I am sure we shall have to use one in connection with the 5 ft. crucking rolls and the Fine Grinding Rolls, and I shall look around and see the many that are in use here and on the Continent and pick out the one I consider best, as our Directors do not think it advisable to use anything but standard well tried machines where we can do so.

I note your sketch of the flexible coupling and would say that I have seen one very similar at work here, but with this exception, that instead of the two rollers working against the outside of the tightened belt, they work between two belts, and this prevents them from getting away from their contact if there

The state of the s

should be a sudden stoppage of machinery, which you will see is decidedly an improvement.

I shall shortly send you the drawings of the whole of the hoppers, etc. in the crushing plant, blowers, etc.

With reference to men, would say that I have as many at work as can be profitably employed and have no fear of "getting into a hole" either mechanically or otherwise.

I note that you are changing your exhauster from the top of the dryer to the ground. It may possibly be well for me to do this and I will look into it, but as I have so much more room and a so much stronger building, it may not be necessary.

I had already made a note when with you in Florida as to the running to one side of the lower belts and have arranged to put the idler pulleys every 50 feet.

I have some of the bearings for the conveyor idlers now at work testing them, and so far as we can see, they are simply perfect. I shall shortly pack up one of these and send it to you for your criticism.

It may be interesting to you to know that we are about acquiring the lease of a piece of land and several buildings where we intend to establish a laboratory with crushing, screening blowing and separating machinery, so that practical tests can be made of any ores, etc. coming in.

Trusting you are well, I am,
Yours most sincerely,

Wm Simplin

Standard Construction Corporation Simited, Titzaluri House Shunded Street, V. Dondon, w.c.

ENGINEERING DEPARTMENT

Dear Sir,

THOMAS A. EDISON, Esq.

I have your two favours of the 23rd ult. - one No: 18 and one without a number - and also your favour of the 24th ult. No: 19, contents of which I have carefully noted.

It seems to me as if we had anticipated you somewhat and I am very glad to know from your No: 19 that the increasing arc increases the grip on the head pulleys in much greater ratio than length in the space of the free belt. We made up our minds as to this some time ago and I mailed you a little pencil sketch showing my ideas. Whilst working out the structural details we have been working in these belts and started to use not less than 25' of free belt on our short 24" convoyor belts increasing this length with the increasing length of belt so that we have as much as 301 in some of our belts. I enclose you a little tracing, copied from the one mailed to you before, in which you will see that we have arranged our first pulley carrying the lower belt next to the head pulley to be 18" in diameter in all cases and to be got up in such a position as to

give the greatest amount of contact between belt and pulley.

For these 18" pulleys we are using 1 15/16 shafts and self-oiling bearings. I can however make these pulleys 20" if you think it preferable.

In my last letter I wrote you what we were doing as to the face of our gearing driving the conveyors, and from this you will see that we have also taken care to have a good width of tooth in every case.

I have received all your letters from one up to this which I am now replying to, both numbered and unnumbered, as per your list, and I see from my letter book that I have replied to all of these as well as writing you unnumerous other occasions.

I have been looking at some conveyor work over here more particularly with reference to the unloading and handling of our coal, and I think if you will send to the "Steel Cable Engineering Co., 92, States Street, Boston" for one of their catalogues, you will find illustrated on page 13 a very good arrangement for a scraper conveyor whorein steel ropes and dust proof wheels are used. I call your attention to this, not that we are contemplating using anything of this kind but merely as a matter of interest.

Yours very truly,

Win Simpsim

# [MAY 11, 1903]

The Dundulan From Ors. Co.
Janlenen
I have received complete Drawings for the fine Crusting
The state of the state of the
same if alterations are made as to foundation
and other detrice It would be well as per
memorandum below These alteration are the
Same Character of Rolls at the Covert Sant
pieces acknowledge rescript of this latter
It would like the final drawings with alleration
made for filing away for future reference -
Memorandum
B-187 There should not 62 more than the
One significan wich between the plates one
quarter of an inch is too much - The edges
of the plates had is the fast corrugation will
Cause Loge to Chip of Sometimes this Chip
well be several wiches long and one to one

and a half u	-ch deep-	we leave of	of the low	ugalion
at the sage.	so the orz ea	unat get 1	old of it	to
break the Ed.	ga Thus.			
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	Space Space	,3		
	Leave space	suchas La	1	
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				7
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B-190-7		. 0 0		
13-180 = Jap 0	solls all sha	ke loose, the	were does	not
lock them it	merely preven	to Sercus from	r being lo	£, .
The only way	to lock the	in is by fitte	ing sheet in	un
the only way	cad to head a	then use to	e wine-	
	de		-	
. Y	3	cuale 1		-
	1 deave 3	apr.	٠,	-
			1	

Regarding the nuts on botto the same objection to
the word holds The Millions of charge Concussions
received daily shakes every nut loose, Instead of a
hole put in a alot Extending down under head
cof nut & drive a laper sheet Cotter in + Gend
over - the laper should not be too queed & the
thickness of the stool & condinole This
to quite a lettle job which can be done on final
coverething but it to essential.
The oil drain at bottom should only have a pipe
long Enough to faster The rubber pipe to and
the same should be locked - a long pupe Greaks
Gy Momentum,
B-181 wall right
*
& B-182 Putting Knust Caller on Gath ends
necesitates preceditions against Conting of
Rolls which will produce a pinch - The precautions
are that the are shall be fed to the rolls
Evenly and that no seggingation of ore lake

place, that is to say that coarse one will not go down the chute to rolls on one side and fine ors on the other, Otherwise 182 wallright 13-183 - all right except lacking with slot or laper Cotten which repolice to the collabe Roll except perhaps the large Housing Golts at end ward may be locked in auather wanner I am douttful if we do not still need the key across the ways to hald the fixed shaft bearings in place, if it gets out of line with drive about there will be trouble, The concussions will strain tapped Golts and draw the reamed Golts = WE have roll plate balts on Regular valls drawn so much that ins couldn't get them out, it is almost incredable but nevertheless true

B-253 - I have never yet used in a roll anything but a hammered won shaft, of this under the advice of John Fritz of the Bethelhem from Co I therefore advise hammered non shafts not that will steel is not strong enough usually but on account of gradual Cry daligation under police ful and Exercingly munite concurre strain Coupling or main shaft will slip no mother of it is forced on There should be a countersunk plate + botts. We have had acrious transfe with ours here and Even after riviting it has started the riviting It is difficult to see where this thrust comes from but it is there and is very powerful. Otherwise B-253 OK-B-254 all right look out for wanping after finishing. Our ways here aprung one sixteenth of an inch so Roll had to 62 dismonthed or replaned to prevent bearings, pinching on the ways

B-255 allought Grosves after unching should be polished Note - The standard outside the roll for internal orling through long whaft should not be put on present jon -B-258 The shaft cover plate will leak oil with lead or other packing B-259 allright Flexible coupling to molor B-263 Minst 62 a good jlob or it ours to leak - we used chawing paper in joints

B-264 WE had to merease diameter of Shear buch to two wiches as concussions hammered the socket allong when we had an Qualler diameter and steel will be worse as it Can flow Should a doise two inches as minimum with perfect fet. It is actionally essential Mitter If you want to get a high average run each day that the shearing device should be made by the best tool maker obtainable that the bushes should not be tempered too ooft so edges will get rounded or too hand no they will crimble and the faces of the Shear blooks should be paratter of bush with The plate of Come perfectly loggither so that a perfect shooning device to had then there will be no trouble One you ratiofied that you have room arough between Gear Casing of shear to get the stub sheared balt out casily My experience to that the workmen never realize how good a job this chear device must be a we then as a rule have to make it all over

The Taper pin to bring ohear plates logether · has proved a failure here, gets all ballored up at on two occasions men forget to take the pin out - we use a mark The obear pin clamp has also accould bed the Oharp. Edge of the slot causes it to act as a pipe tap, we have rounded the edges of slot but its not ideal Regarding the gears. The shongth is all right but the pressure is very heavy for a 200 rate the pressure is 2100 pound, for driving + double This for obearing - It is not a question of shough so which as wearing surfaces It openly we theoretically perfect + we always got rolling friction ste it hight be all sight best we don't get it Troops The april present has one very great, and the wear will be proportionally great, another thing is that we have cast years. The gears should have a minimum face of not less than sixteen inches

Î

Eighteen wiches would be junch better, They may look strange but that is no reason they should not be used. The gear body could even be lightened Groceros its not a question of Strength sounch as wearing surface On the Spring rafts only a burnce part of The work or others goes through the greats Both rolls are practically divor duch I brough the medium of the ore The grano preventing of p + consequently ween on the plates, and in the Case of the regular Bolls without opings the grean do not transmit one quarter of the stress & GESIDES Decque very smuch los power; but on the few granding ralls the whole of an queat power goes whally through the hence the gears should be all out of proportion to the gears above mentioned no mistake dry wong

The far of these gears makes it absolutely implicative that a flexible be unespotated between the nector of the drive of therisis the jump of the brushes and sparking will be B-265 I secono I the use of a regular Engine pistor & map rings. The richief hole attail and should be hadness to half nichprovide a strain pape in contact with cylinder to prosent berging in The courter B 2664267 - It was decrease that ropes already appliced shall be in readeries, it is difficult for men to spher in will a desirable that it be done outside a Grought in - with to lightener traging it will be difficult to do it without you make a change There The position of your tightener does not permit of a clear seperate room at but I suppose you contemptate making the room so the

an extender, will be	ent mater room The
	- The Et will not do to
	accotor room unprotected
	lucto moung rape brings
	a council be too particular
	cap out dust, We use matched
	ten cont canvas + point
The Canvas	
Will not your rope of	rike foundation when
Otanting up -	· V
1 1	
B-169 all right	
B-196 aceright	<u> </u>
	s ohould be made sold
	ined by hollowing out
	yer from chiping off
	I that sometimes the
rolls will Cant,	
·	

C-139 - C-140 To deedly abjectionable The Concusses throw of the housing will not be leas There one sixteenth of an tuch + sometimes; more. The gen bearings would not work at all. Un should have east now girdens Murtusix wiches wide well ribbs first deep at the foundation + and somewilla have a fost on the where it rest, on the foundation say four feet wide a well seemed by balts to a nery Massive four Dation the greater the mass the Getter, If this is done The honoring throw may be reduced down perhaps to one sixty fouth of an inches your gear wice work all right No one can realize what these throws are until he sees the rolls doing work-C-141 allright C- 142 all right Except as to

	•
enter e	C-143 Forced coupling uncertain advice successed plate & Calto - Mater Alaft have flexibles
_	successed plate & Balts - Mala shaft have
	florible.
	a-144 allright
	B was constituted and the constitute of the cons
	13-175 all right except that you may have
	Trouble in getting out plate Golfs they coult be
of the latest	Honor Mandil will more I advise pining
	us addition
	13-186-acongto
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	A STATE OF THE STA
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"bofy"

Letter No. 19. William Simpkin, Esq.,

London, England.

Dear Sir:

May 11, 1903.

From the prints of the five rolls I have just gone over, I find some of the suggestions I have made in my letters have not been followed out, and I fear you may not have received some of them, so I have had copies made of each letter, which now send you under registered mail, and I beg to ask that you will hereafter acknowledge receipt of each letter I may write you.

Please note that the suggestions made are the results of the actual experience we have had and are having at the Cement Wks., and I fully believe if they are carefully considered will save your company from the loss of considerable time and money when you Yours truly, start in operation.

I do not remember that I told you how we proceed every ad our thating for desiring the Blowers - We have it as in sketch Kol WE use wooden coheals 16 ench one Unter drive and 36 mich on Blower shaft, 45 dayres grove and one well merximmen officed of 200 Revolutions a for slowing it down uts but a Regulating Kasastanas in the ing to all the annalin with Blowers of sidgulater cold right which is not the Case in any alto I molance probably because I no friction lond for the with ver very dry or 160 with wet The bite of the rope in the groov great that it will a a Grockof

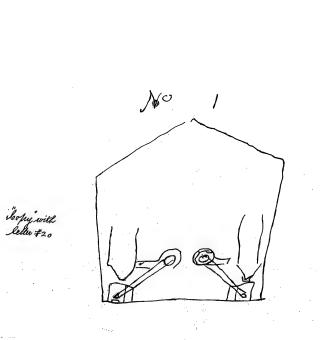
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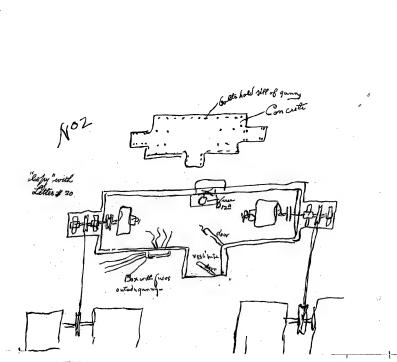
the run that varying the speed. WE make a Conclate foundation on two fast deep 18 when below earth floors 16 miles above as per skelet No 2 The foundation reaches from one mator, to the other two wotons Genny incl one genery chamber wheel of Grange are Chamber Where shoft got I through there is a loose weed peaking are alketh to 3. The door is suff closing having a weight on and of sach but connected to cord through a spiral Opring to take was shock off = The door has weather proof being a rubber tube it closes it perfect in door has slood 7500

ŕ

of gunny for Chamber + ougle Thickener Wetthe obitside, The 3 thickness are pert logation WE had to do it us the float. Clave through a makes bad motor aparking Slagging on the Communitation by making bestitule colored we co ed pine Then covered Carbon he sa were no good - WE are getting low heat results below what he evel

Claima - Thave sent officeal, Rolls to the to for record there are some few changes that should be under I will send you a pinion from 25-HP Motor on Conveyor which has on 43 days you will see how inadequate the wroning our face of ouch a pinion to for that amount of power we are Cotting all ours Eight wiches for 25 HPU+ 12 for 50 HP A frame for purious of the cochich has seef aread to sunge - This us a good Coast non Casing Ahrens can use Crusher Oil-We are changing 34 drives this





"lopy" with little # 20

103

"bofy"

May 18, 1903.

Dunderland Tron Ore Co.,

Fitzlan House, Arundel St.,

London, England.

## Gentlemen:

I have recoived the drawings for the five foot spring rolls and approve of the same if the alterations suggested are made as per following memorandum.

## Hemorandum.

B.230. The throw of this roll will be tremendous on account of its weight; the girder is entirely inadequate as I have stated in two of my previous letters. I am very sorry that you could'nt have seen our 36 Roll in operation, you would realize what I mean by entirely inadequate. We have now gut all our supporting beams in solid concrete. This of course will do away with the clasticity of the beams which tends to save the pound of the housing. It will now be very severe and we intend to put shout one inch of righter in for the bearings to strike against, protecting the rubber from oil as far as possible, I advise that you change your girder to a box girder.

B-127. B-211. Our filter oil oup with the gauze wire filter is very successful but the concussions broke the cup off and also the gauze oup being only soldered at the top broke off by momentum on stopping and wehad to take oups off of bearing of rolls and connect by a

#3 D. T. 0:00.

rubber tube. This is very undestrable and defeats the object of the cup, which was to forever insure the bearing against grit getting in, as the men disconnect the tube and leave it open for grit to fall down from floor above and get into the bearing. I have a new oup in which the gause cup in supported at top and botton and the cup itself is supported by an iron frame helted to bearings. If you put the oil oup on top of the tube on N-127, it will break off within an hour without it is braced at the top. What is wanted to the gause filter cup inside and a part of the bearing. The gause cup being supported at top where it is soldered and at the bottom.

Gould you not put filter in oup on N-127 and still have it convenients.

B-232. There should be a flexible inserted between motor and rolls drive on account of the inevitable throw of the housing and rolls on even the strongest box girder, the shafts having no wobbler will not work, it will heat up badly. So stop this you will have to use the wobbler on both shafts. It the throw at the rolls and drive gear supports could be rade the same, possibly the second wobbler would not be needed, but I think thin is impossible.

B-173. Wink shear bush should have a minumen diameter for the reason given on report of fine grinding rell. We use for shearing pin on our 36 Rolls nine sixteenths, so you better start with this size. How about room between goar casing and shear disk to get your shear yins out. Same frouble with shear pin clamp as reported on fine grinding roll. Grease oup for ciling gear will jur off if

not fastened well.
B-169. O. K.

B-196. O. K.

#3 D.I.O.Go.

B-195 O.K.

B-197. 9. K. except roll extension shaft ought to be changed to wobbler connection for reasons mentioned.

B233. B-234. Will the end chuck hold on the roll shaft without backing off, regarding this form of webbler if it/proportioned right I suppose it will do the business.

B-172. O. K. Joints should be packed with paper or equivalent.

C-115. O. K.

C-133. Use pine instead of maple. Have spoken of this in three different letters, which makes me think you must have missed some of the letters. See remarks about block of rubber to take shock in addition. Otherwise O. K.

0.120. O. K.

C-121. O. K.

C-118. O. K.

0-132. O. K.

C-113. The plus hole useless set by a mark. See report on fine grinder. Start the shear pin nine sixteenths. Otherwise O. K.

C-134. O. K.

0-112. O. K.

That is object of having the key seat in bottom of all the bearings 3 inches by 5/5.

#4 D. I. O. Go.

B-128 O. K.

B-888 O. K.

B-139 O. K. B-130 O. K.

B-212 O. X.

в-229 о. ж.

B231 O. K. except regarding eafety of the forced coupling for wobbler.

B-227. 0. K.

B-232 0. K.

B-195 O. K.

Same remarks about looking of stud bolts as given in report on fine grinding roll.

Yours truly, Thomas A. Edison

ALL LETTERS SHOULD BE ADDRESSED:

Titzalun House, Arundel Girect.

TELEGRAMS: STANCOLLI, LONDON.

Zonaon, w.c

No: 24.

May 19, 1903.

THOMAS A. EDISON, Esq.

Dear Sir,

Acknowledging your letter No: 19 of Hay lith (I also received a No: 19 of April 24th) would say that I am going carefully over your previous letters, all of which I have received as per my letter No: 23 of May 5th, as I am under the impression that we have carried out all the suggestions which you have made which are pertinent to our work.

The fact is that we are not doing a single thing without giving it the fullest consideration from every point of view and taking advantage in every way of all the suggestions which you from time to time have so kindly given us.

Also we are watching carefully the manufacture of every piece of machinery and shall continue to do so, as we wish to have this plant erected in a thoroughly mechanical manner so as to obviate as much as possible any trouble except what one always has with the starting up of a new concern. I am going over to Morway in the course of a few days so as to see what can be done as to preparing for our excavations and foundations, and will write you fully on my return.

Yours vary truly,

Wm Simplin

M. Standard Construction Corporation Similed,

Standard Construction Corporation Similed,

System House, Armyer, 57,554,

Similarly Court State State

20th May 1903.

Mr Thomas A. Edison,

Edison Laboratory,

NEW JERSEY, U.S.A.

Dear Sir,

TELEGRAPHIC ADDRESS:

The Dunderland Iron Ore Company have handed us a letter addressed by you to them, dated the 11th May, on the subject of certain of the Dunderland mill drawings.

We thank you for your valued observations, and have requested Mr Simpkin to reply to your letter on its technical features.

Yours faithfully.

STANDARD CONSTRUCTION CORPORATION LTD.,

Secretary.

ENGINEERING DEPARTMEN

Titzalun House, Arundel Gleet, Lindon, w.c.

TELEGRAMS: STANCOLLI, LONDON.

No: 25.

May 20, 1903.

THOMAS A. EDISON, Esq.

Dear Sir,

Your favour of the 11th inst. with reference to the Fine Grinding Rolls (which you evidently addressed to the Dunderland Iron Oro Co.in error) has been handed to me and carefully noted in every instance.

Final drawings will be sent to you for filing, as requested. In this connection would say that I have decided wherever it is possible to use solid forged couplings so that there can be no possibility of slipping.

Yours very truly,

Win Simplin

Titzalun House, Arundel Street; London, v.c.

TELEGRAMS: STANGOLLI, LONDON.

No: 26.

THOMAS A. EDISON, Esq.

Dear Sir,

Herewith please find print A.172 which is a skeleton drawing of the bin below the Giant crushers as far as the first set of rolls - changed in every way according to our conversation when I was in Florida. The details we will send you later after they are completed.

Yours very truly,

Wm Simpsin

ENGINEERING DEPARTME

TELEGRAPS: STANCOLLI, LONDON.

No: 28.

September 4, 1903.

THOMAS A. EDISON, Esq.

Dear Sir,

Since my return from Morway, and later from Stockholm where I was sent by the Dunderland Iron Ore Go. to join Mr. Ballantine and Prof. Louis in an investigation of the Grondal furnace, - this is the first opportunity I have had to get together and mail you a lot of prints.

Before leaving for Norway I sent you a skeleton drawing of the bin, etc. underneath the giant rolls in which I embodied all the changes and suggestions which were talked over whilst I was with you in Florida.

I am now sending you the details as follows:-A.172, 176.

B. 269, 270, 269, 290, 291, 292, 293, 297, 299, 300, 301, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 316, 317, 318, 319, 320,

C. 135, 316, 137, 148.

in all 33 sheets.

Crusher piers, A.160.

Drawings screens, etc. A.124, 149, 150, 174, 175, 177.

B. 203, 204, 205, 206, 207, 208, 209, 210, 277, 278, 279, 280, 281, 315, 321.

Drawings of Blowers - A.176, 179. B.322, 530.

Diagrams of general lay out, and also of all the buildings, head and tail pulleys, etc. -

A. 125, 126, 131, 132, 133, 134, 135, 137, 138, 139, 140, 141, 155, 180.

B. 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 235, 240.

Also drawing A.195 which is the skip for carrying up ore: B.542, the skip car.

With reference to this skip, you will note that I have drawn it out somewhat lighter than we had talked about as I have seen some skip care almost similar in design and they are lined on the sides and bettom with 1.5 hard wood planks which add

very considerably to the life of the ear.

Awaiting your favours, I am.

Yours most truly,

Win Simprin

The blower maker was thoroughly gone into with Pallantine, who make a lot of enferements at Grange, it we are continuing these hore.

Standurd Construction Corporation Simited, Itzalan House, Ihundel Bredi London, w.c.

Dear Mr. Randvelphi

Phank you awy
much for your letter about mr.
Eduson's eyes. I am writing him
quit an epistle which goes by
this mail thindly are it peachs
him tifhe is at Stewartsorble
please forward it & greatly
oblige. With my best wishes.

yours most truly

ELL LETTERS SHOULD BE ADDRESSED: -

Titzalun House, Arundel Street,

TELEGRAPS: STANCOLLI, LONDON.

Sept 8.03.

Dear Mr. Edison

Mr. Ahodes has just been in and shown me a letter from you. I thank you very much for your tundly words, but for the life of me I cannot understand your apparent lack of confidence in my ability to carry out this work to a successful issue. Since I have been here I have had but one purpose in one to carry out your wishes with pegard to this Plant and to make it a success. Since the days we first laid out the prelimmary drawings and decided on the general arrangement, up to this moment, not a thing has bun changed by me where any principle of your system is muchoed and I have taken particular pains to embody your suggestions. It has been my constant study to thep I an absolutely Edison peans + I have refrained from and argued against any attempt to have introduced modifications suggested by others. In fact at times I have had to be very skubborn + unpleasant - In a score of letters I would not begin to tell you how I have had to stand up against "Doubting Thomases" + on behalf of you + your system. Confidence begets confidence" and just when I had the biggest doubter

ALLETTERS SNOULD DE ACCRESSAGE - Titzalam House, Arundel Street,

TOTALLAMO DEFARIMENT

London, w.c.

full into line, here comes a letter from you, throwing doubts on the very one that did you know all which has taken place since my arrival here - you ought to stand by. You said "stick by me + I will stick by you" + this I have faithfully done + am doing. You seem to think I have had no experience in cushing to. I have never claimed any experience of your system other than that gained whilst with you, but I think to day I possibly know more of it than anyone else vilsade of yourself. That I have a good knowledge of and had a considerable experience in both crushing, fine grinding, screening + conveying goes without saying + I can point with prude to several plants which to day are successfully working-On my polium to this country after an absence of over twenty years I went to see a large elevating + conveying beant designed & erected by me, and which is still doing good work. I feel that I am able to hold my own with most Engineers in this particular line + I know I have had an experience, always practical, second to none. cannot at all understand how it comes you have not in your possession a set of the Giant Roll drawings, as my mailing clerk's book shows they were sent to you,

Iitzalan House, Arundel Street; London, w.c.

besides this we discussed a many features of them when I was in Florida, going into prices to which I conformed by letter to you on my petium here. ap. 22.00. However I will at once have another bet of fruits made & mailed to you. I did not send you the Dryer drawings as they wou are made before I left the haboratory and are an escad copy of that at 'Stewarts will - as also the Distributor- care having however been taken to shorten each screen plate + to put in plates motead of angles at the lower end of each screen plate, as per your wisher, and as seen by me at Stewartsville so far as the change from angles to plates is concorned. I mailed you on may 22 a skeleton drawing A172 of the lin to under grant Rolls embodying all the changes & suggestions as made by you when I was in Florida - not receiving any admowledgement of this letter or print & have detailed the whole of it on the lines as set forth, and these details have been sent to you. On June 2nd as I wrote you I left for norway-returning here July 5- leaving again on July 8th for Sweden at the request of the Dunderland 62 to join Prof. Louis + Mr. Prallantine who had been sent out whilst I was in norway to investigate the grondal system of Brignetting - I had hoped to

u uttiss ssours on sconsser. — Titzalam House, Arundel Glrect;

Keep out of this at least until I would talk matters over with you but the Co took the matter up and I had no choice but obey instructions. at this time I will just say that must successful briguettes were produced, several tions of which have been sout to Consett where they have been used & the verdict is favorable. I will shortly mail you a full description + when you see Prof. Louis report, traving in mind his previous report on "magnetic Separation" ne which you wrote "Simptim read this then see me it is dreadful"- you will have an idea what I mean when I pay I have had to stand up & fight for you & your system - or we would have had "grondal & Louis all through. I returned to London on July 19th and since that time have been very busy attending to various matters - The other day I wrote you that we were mailing you a lot of paints and no doubt most of them if not all have reached you ere this - my time is absolutely all taken up + this job is no "cinch" for I discovered if I did not take over the whole business our estimate would be away off. The first attempt to send out prints +

FERING DEPARTMENT

itzalan Kouse, Arundel Gireet;

\* specifications, getting in bids on a given day, then opening them in solemn conclave which is the custom here showed me we would be in the long damp grass very soon - so & baid all the bids were too high and I asked the Board to appoint a Works Committee + let me handle the getting in of prices + place whom before the Works Committee with my recomendations - this was done and I am very pleased to be able to say to you that up to date all contracts made are well within our estimate - but all this has not been done without considerable hard work in my part which I did not expect to have to take up - I think however you will agree with me that it will be an outra feather in your cap" of we can carry out & start this plant within the estimate. Please do not think for one moment my hat does not fit - I am just the same old dollar bell + just as find of my work as ever - first here in the morning & last to beave at night & Heeping everybody around me up to the mark. Do not think it is all "ego" with me, in is not, you have been always put fromost by me

FNGINFERING DE ADDRESSED:

htzalan House, Arundel Street;

as it is my pleasure as well as my duty. I am not seeking notoriety as our friends "He Roberts + 60" do at every move- su american, English + horwegian papers-I am willing to carry the missage to garcia + shall be more than content if an the completion of the work I have your commendation. Now what I want to ask is that you show a little more confidence in me + try I get it out of your mind that I am trying in any way to supersede you in this work - I assure you that I arm not doing a thing that you will not appare when you are the Plant in operation. I am using judgement in everything, weighing everything carefully of not rushing headling. On my last visit to Stewartsville to go over the plant with M. Jayne at your puggestion + make notes of all "bugs" + "changes". I left a little puffed. a certain gentleman who seemed to have charge of the drafting had three or four draftsmen in the office ready to start work, whilst others who had been on my staff + with Darling were also about - I was polite enough to say to this gentleman that I had discussed

LI LATTERE SHOULD BE ADDRESSED.

SITZALAM HOUSE, Arumdel Street,
ENGINEERING DEPARTMENT.

a many things with you + should shortly mail some drawings embodying all we had talked about for your approval - the replied with a loud write + with a cyrrical laugh, looking around the room for approval - "Oh wait until ! get the drawings It cut them up" which of course was particularly nice + pleasant for me - + gave me the very comfortable feeling that my drawings would not be understood. Whitst I don't want to criticise the gentlemen I must ask you kindly in future to take up my work yourself + let it be a matter between us - + trust me to take care of all the little details. What will be the outcome of your letter to mr. Phodes I don't know . He wentpost-haste to Barrow. m. Furness where the Steel Institute was holding a meeting + saw Bir David Dale, In ainsumt + 9W. Williams, and all four have combined in sinding me word of their unabated confedence in me + my work. I shall look with interest to your apply to this somewhat long communication. I would also like you to bell me how matters are going at the

ALITIES BOOKD DE DOORSEE: Titzalam House, Arundel Street:
NGINEERING DEPARTMENT.
TELEBRASE STROOULLEBOOK.
London: W.C.

Cement Plant. I hear the Dattery is now on the market + I congratulate you. My people have are discussing all sorts of schemes & I am continually making estimates on Rand on try brushing, Cement Plants \*c. 1...

With the ut most extern + best wishes.

I am yours most truly Win Swingskin

Standard banstruction Corporation Semited. Fitzalan House. Inundel Street;

ENGINEERING DEPARTMENT .

London, w.c. Sept. 8.03

4.30 p.m.

Thomas A. Edwar Esq. Dear Dir

a great many of our people come in here to see one of allows on the progress and prospects. The fact that we have not been able to true them the termit Plant is successfully running has caused some to ask very authorist questions, and at the meetings of our various componies which I am bridgen to altered I am often artled very feetingly questions - my answer is always to this end "Mr. Edison throws what he is about and there are a many things connected with this process somewhat

puzzling to even Engineers unless they have particularly atudied the worth, but you may rest assured it will be a success. I say the same thing to those who call I my unwavering faut in both you + our undertaking has worked wonders - I think it will be will for you to tell me occassimally about progress at the Cernant works- you can trust me to handle any information you may give me to your interest. I am as pleased to hear from Randolph that the newspaper articles about your eyes were "to say the least" exagginated-I hope to make a trup of su you soon after Christmas & then we can discus a many things 4 probably you will feel, after our Italk that possibly you have

Men mistaken 4 Simpkin is an Edian man\_

Your most truly
Win Simpsin

Standard benstruction Corporation Limited. Titzalan House, Annald Street:

TELEGRAPHIC ACCREES.

Sept. 8.03 Sept. 8.03

Thomas A. Edison Esq.

Dear Mr. Edison

Som just in peccipt of a notice
asking me to attend a meeting of the write
Committee on the 23°4 min. to discuss the
Popiguetting behavior. From my to days
letter with peports you can judge pretty
well of the situation is 8 think more is
from the time - if you go decire - to accert
yourself + also show that you have some
Compidence in my ability + integrity of

purpose. At any rate it will not do to

que Louis + his gang a foot-hold-the

is now trying to press on us some fellow to assist with the magnet work - , saying the has "such a fine touch" + c ve - + I must oppose thim, if I am to be loyal to you + to myself. He does not know the first principle of our work + lays hold of the veriest straws if he thinks it will help him - what he says to the Committee in my absence I don't know- but I am beginning to tenow the man + can read him like a book. When you get this if you feel as I do about ih please cable the Dunderland Co as the meeting may be before the 23th if it should turn out to such pine of the onembers better - they have a happy way of changing dates at a days motive- Please cable within that you approve any report +c

pe brighetting or advise the Co to leave the brighetting matter in my hands. I can then lay the whole peterne out + pubmit it to you. I have thought it all out to while we have a very ugly piece of lead at the aut peterted I think I can get it in all right.

Anyther you want to help one to thick off the Born's crowd xthis will do it + I think for good.

Am writing in heat to call the mail train.

Yours and brief

The Commisse consists of W. Rhodes - who is your great admirer & my friend amounted Williams

Win Simptin

Mason

Standard Construction Corporation Simited, Titzalan House, Arundel Street,

TELEGRAND: STANCOLLI LONDON

September 8, 1903,

THOMAS A. EDISON, Esq.

Dear Sir,

When Mr. Dick was here a short time ago, and soon after: the matter of briquetting had been discussed by our people, he told me that he was writing you with reference to the same and asked me to send you as soon as possible full particulars of the Grondal process which it seems our people have decided to adopt.

I went over to Sweden several days after Prof. Louis and Mr. Ballantine had arrived there and had an opportunity to investigate carefully one of their furnaces which was at work, and another which was under construction.

The furnaces are simple tunnel furnaces of the ordinary type and differ very little from the furnace which you were building at the Laboratory in general design excepting that the crown of the furnace is brought down within a very short distance of the briquettes on the car passing through, and that producer gas is used for fuel instead of powdered coal.

T.A.S.2.

I enclose you exhibits A.B.C. and D. which will put you abreast of the position of affairs at present.

"A" is the report of Prof. Louis and if you will read this carefully you will see that he has gone entirely out of his way making suggestions, etc., as he has I believe in all other reports of which copies have been sent to you but more particularly in his report on the magnetic separation which you will very well remember.

Exhibit C. is the limutes of the meeting of the Works Committee which was held to consider these two reports. I may say at this point that when I arrived at the meeting it was very evident to me that the whole matter had been discussed with Prof. Louis in the north before the members of the Committee came up to London, and that their minds were pretty well made up as to what they would recommend. This being the case, I had very little to say as I intended to look somewhat further into matters before agreeing with their recommendations, and this resulted in Exhibit D. which is my report as you will notice under date of August 31st is much later than the others.

Since my report has been sent to the Committee I have had no indication from them as to what they intend to do in the matter, but I am pretty well satisfied that they will eventually carry out my suggestions as to leaving out this extra set of rolls which I do not consider at all necessary.

I am sending you one briquett which was made amongst many by the improvised press and afterwards passed through the Orondal furnace, and I think you will agree with me that it is a very fair sample of what a briquett should be. This contains shout 70% homatito and 30% magnetize and no added fines - of this I am perfectly sure.

The whole of the briquettes made were just as good as this one but those made with the Grondal press were not in any way equal to the one I sand you.

I have gone carefully into this business and if we are to adopt the Grondal furnace I am satisfied we must also adopt another press, other than that used by the Grondal people - which is a very crude affair at the best - and it is for this reason that I have recommended to the Heard the adoption of the press made by the Mould Co. of Fittsburg - Exhibit E.

This press will I think make the cylindrical briquott or it will make the size and shape as recommended by the Works Committee, and whilet I am perfectly satisfied that we can handle those briquettes automatically if made of a cylindrical shape, I agree with the recommendations of the Committee that we go slowly on this point and put in presses to make the 6" x 5" x 5" x 5" briquett which will have to be removed by hand to the care.

I know the Mould machine very well and have seen it in use in a great many places, and to my mind it is so much the

superior of any other briquetting machine which we can purchase that I had no hesitancy in recommending it to the Roard.

There are quite a number of briquetting machines made in this country and in Germany which I have investigated but I do not think that any of them can come up to the one recommended in any way.

Whilst waiting for the decision of the Company as to whether or no they will adopt the recommendations of the works Committee, I am making a general lay out which I think will be best and after I have got it into proper shape I will send you a print.

After you have gone ever these several enclosures I wish you would write me what you think about it anyway. As this is not your briquetting scheme, I was in hopes that I might have been left out of it entirely and that it would have been turned ever to the Gröndal Engineer, but when I found the way things were going, as usual. I stuck my finger in the pie and this is the result.

I should say that quite a large number of briquettes were made of the Dunderland ore - both by the Gröndal press and by the press improvised by Mr. Bellantine - und there is no comparison between the two as the briquettes made with the improvised press are so much superior to the others. Quite a quantity of these briquettes were sent to the Consett Iron Works and the report of the Works Manager and the Committies very

..A.b.5

gratifying, in so much so that all the worries which our people have had with respect to getting out a satisfactory briquette soom now to be set at rest.

Yours very truly,

Um Sninphein

A

file

# Report on the Grondal System of Briquetting.

The DIRECTORS,

Dunderland Iron Ore Co.

#### Gentlemen,

In accordance with your instructions, I again proceeded to Herman, in company with Mr. Ballantine, to conduct a forther series of experiments upon the Grandal system of briquatting, which process I have described in my report to you actor April 25rd last.

Two Grondel process properly speaking consists essentially in making briquettus of iron one without any binder except water, see firing the briquettes thus made in the long tuncel-like furnace, drawings of which accommunied my report already referred to. The material experimented on consisted of Dunderland Specular iron ore and magnetite, mixed in various proportions ranging from about 10% of the former and 90% of the latter, to 90% of the former and 10% of the latter. All those mixtures cave practically identical results, and it would seem that specular ore is just as easy to briquette as magnetite, although it may possibly require a slightly higher temperature. Experiments were tried with briquettes made in two ways, namely in the drop press previously described, and in a press improvised by means of a powerful screw jack, which made a briquette 3 in. in diameter, nearly 4 in. long, and weighing about 5 lbs.// The pressure exerted in making these briquettes was probablyabout 2 tons per square inch, and the briquettes made in this was were rather better than those made in the drop-press. In both cases, however, a briquette was produced which would perfectly well stand handling (before going into the furnace) but which was too tender to admit of automatically charging upon the cars.

-1-

About one ton of Dunderland briquattes was made altogether in various ways, and all of these were quite satisfactory, the resulting briquettes being strong and hard, and shewing no tendency to form fines. A briquette taken from the furnace at a red heat could also be thrown into a bucket of water without disintegrating. The briquettes produced (about one ton) have been forwarded to the Consett Iron Ore Company, Ltd. The furnace worked well and economically; when working on Herrang magnetite, it turned out in regular work a car of briquettes, weighing about 15 cwt. every half hour, with a coal consumption in the gas producer equal to 3.75% of the weight of briquettes burnt. Allowing at the much higher rate of 1 cwt. of coal per ton of briquettes, and taking the coal to cost 10s. per ton at Dunderland, the cost for fuel will amount to 6d. per ton of briquettes. The charmel hereath the furnace was always fairly cool, the furnace lost but little heat by radiation, and the temperature of the escaping gases, as also of the issuing briquettes, was about 150°C. There is therefore but little heat lost, the chief consumption being probably that required to evaporate the water in the raw briquettes (amounting to about 7.5% of the weight of the ore). The temperatures attained were measured by means of Seger cones. which showed that a heat of 1400° C. was readily obtainable. The furnace is not expensive to build and should cost but little for repairs; it thus evidently answers all requirements. must be remembered that the furnace at Herrang is intended for calcining, so as to remove sulphur, and not merely for burning briquettes, and hence works relatively slowly. I found that Dunderland briquettes can, however, he burned perfectly when drawing cars at the mate of one every quarter of an hour, and have no doubt that equally good results could be obtained by drawing at the rate of one every ten minutes, if Dellwik water-

can or producer-sas, rich in hydrogen (such es made e.c. in the Taylor or any other producer worked by a steam jet), were employed instead of ordinary producer gas. Such gas gives a higher local temperature and would therefore be preferable for the manufacture of briquettes. A car of drop press briquettes (6" x 6" x 5") of Dunderland ore will carry two layers each of 12 rows of 7 briquettes, and as each briquette weighs about 5.5 kiles, each car carries close upon one ton of briquettes. For a large out put multiple tunnel furnaces would be best, a 6 tunnel furnace forming probably a convenient unit. Such a furnace would be about 33 ft. wide and 165 ft. long. Assuming each tunned to burn a car carrying one ton of briquetous every 15 minutes, this must would hurn about 500 tons per day, so that 6 such units (5 in action and one in reserve) should suffice for an output 2500 tens of briquettes daily. The width of ear new in use has been adopted so as to enable the workmen to place the briquettes upon the car, working from one side only. If preses, were arranged along both sides of the car track, the cars could be made wider, say about 5 ft. thus making a better furnace, and allowing a 4-tunnel to be substituted for the above 6-tunnel unit. Such a unit with cars taking 12 rows of 12 briquettes each arranged diagonally as at present and with two tiers on each car, would turn out rather over 25 tons per hour. As cash press makes 10 briqueties per minute, 8 presses will be required for each unit, these being con-Teniently arranged in two groups, each supplying a pair of tunnels, and being arranged by twos on either side of the car track; the pair remote from the furnace we uld make briqueties for the lower tier, and the pair nearer the furnace those for the upper tier. Each unit would then require 8 men per shift at the presses, 2 at the charging end and 2 at the delivery end

of the furnace. Allowing one was at the gas producer and 1 man at the mixer, assuming that three shifts are worked and that wages average 3 km, nor day, wares would amount to shout 3½d.

Per ton of briquettes. Each press is stated to require 3 HP, so that allowing for the haulage of the cars a 30 HP, motor would be required for each unit, corresponding to a coal consumption of say 30 cut. of coal daily, or but little over ¼d.

For ton of briquettes. The total cost of fuel and wages would thus be about 9½d, nor ton, to which must be added the charges for most and tear, repairs and management; no data are consistent for estimation these, but it seems make to assume that the total cost of briquetting by this method should not excess law, por ton.

By the employment however of a powerful briquetting machine working by pressure and not by a blow, i.e. a press actuated by mechanical leverage, or by hydraulic power, it seems possible that a briquette may be produced firm enough to bear transfer to the cars by mechanical means, and thus to dispense largely with hand labour at the presses. I am inclined to think that a cylindrical briquette, 3 in .in diameter, and 31-4 in. long, could be made with finely ground ore, strong enough to bear such treatment, by a pressure of 4 or 5 tons per square inch, or say a total pressure of 35 tons, but this is a point that will have to be determined by actual experiment with a suitable press. Our experiments at Herrang show that a car filled with such briquettes can be burned as thoroughly and as rapidly as a car charged by hand with the present form of square briquette, and that the fact of these cylindrical briquettes touching each other makes no difference to their thorough burning. All questions concerning the burning of the briquettes may now be looked upon as satisfactorily settled.

That of the best form of press, and in connection therewith, of the best shape of briquette, and of the best way of transferring the same from the press to the ear, still remains to be decided by experiment with various types of presses, -

My conclusion is that the Grondal method of burning Friquettes of Dumdorland ore has been proved to be quite successful, provided that the following points are attended to, those being stated in the order of their importance:

- 1. Sufficiently high temperature. The temperature in the combination chamber must never fall below  $1300^\circ$  C, and is beat kept between  $1350^\circ$  and  $1400^\circ$  C. This can readily be secured by means of producer gas made with the injection of a sufficient quantity of steam, and with a properly proportioned furnace.
- 2. Fineness of the ore. The more finely ground the ore, the botter are the resulting briquettes. I am inclined to advise that all the magnetite should be ground wet, and wet soparated, as suggested in my previous report, and that the specular ore should be run through a pair of fine grinding relivenities way to the sprinkler and mixer, which will feed the ores moistened uniformly with 7 to 8% of water, and thoroughly mixed, to the presses.
- 3. Sufficiently high pressure. As already indicated whatever shape of briquette and type of press may be ultimately adopted, the briquettes chould be made under a pressure of never less than two tons upon the square inch; a machine working by steady pressure seems to give better results than a drop press, although quite satisfactory briquettes have been obtained by the use of the latter.

I am, Gentlemen,
Yours obediently,
(Signed) HENRY LOUIS.

Copy.

B

August 4, 1903.

The CHAIRMAN and DIRECTORS,

Dunderland Iron Ore Co.,

Fitzalan House,

Arundel Street, W.C.

Gentlomen,

Report on the Grondal System of Briquetting.

I arrived at Herrang with Prof. Louis on the afternoon of July 7th, and found the Grondal furnace in full working order running night and day. Owing to some difficulty with their fine grinding machinery they could not not enough "fires" to keep the furnace running to its full capacity, and they were theorefore only passing half the number of briquettes through the furnace per hour than I understand they have been in the habit of doing.

As a plan of the furnace has already been sent to you, it is needless for me to go into details of construction, dimensions, etf. The press, as already described by Prof. Louis in his report, is a "drop press", making eleven briquettes per minute, each briquett weighing a fraction less than 10 lbs the output being practically 100 lbs. of briquettes per minute, or 2.6 tons per hour. The briquettes are removed by hand from the press, and placed on edge on a car, 84 briquettes making one layer; the briquettes are placed two layers deep, 168 briquettes in all, or a total of 1680 lbs. per car. Usually a car is placed in the furnace every half hour, and at the same time, one is taken out, although whom we arrived they were only putting in one car every hour for the reasons already stated. Whether a man would be able to stand at a press hour after hour and remove the briquettes as they are made for a full shift, is something of which I am very doubtful. It is more than likely that three men would be required for every two machines, so that using the Grondal press it would cost at least three pence per ton to place the briquettes on the car. The tops of the present cars

are covered with common red brick, and to prevent the burning of the same a layer of concentrate is apread over the bricks each time the car is leaded up, which seems to me a very extravagant proceeding. Mr. Grondal however is arranging to put on fire brick covers which will overcome this difficulty which is common to all tunnel furnaces used for this and other purposes, The bottom of the cars in passing through the furnace remain practically cool so that there is no fear of their burning out. In my opinion, the economy of the furnace is first rate, the temperature of the escaping gases being 100 contigrade, and the temperature of the brighantes is about the same. This high rate of officiency however could only be kept up by placing a cur in the furnace every hour, as I noticed that when we forced the furnace and withdrew the car every quarter of an hour, the briquettes came out red hot. This however could be greatly reduced by lengthening the furnace as proposed by Er. Grondal. The producer is charged eight times in twenty four hours, each charge being 180 kilos, or 2900 lbs. per twenty four hours.

Unfortunately Mr. Grondel had mixed up our homatite and magnetite concentrate together and had ground up about 30% of it to "fines" bufore our arrival at Herrang. As I shipped equal amounts of both concentrates (as instructed) this of course made a very high magnetite mixture, which on assaying proved to be 50% magnetite and 40% hematite. This I think was also due to the fact that the ore to make the "fines" was orushed in a ball mill and probably a big lot of hematite washed away.

We made several briquettes from this mixture, which are marked No: 1 and passed thom through the furnace. They were four hours in the heat and looked first rate when they came out.

Briquettes marked No: 2 are from a mixture 42% magnetite and 58% homatite.

Briquettes marked No: 3 are 45 parts magnetice and 55 parts hematits. These were in the heat the hours which in the usual time allowed for the Grandal briquettes. A quantity of the No: 3 mixture was taken and made into briquettes three inches in director and about 4 inches long by means of a "screw jack", giving a pressure of about two tons per square inch. These briquettes however were much too weak to stand automatic handling, owing to the want of pressure, but were strong enough to stand being piled one on top of the other topay turvy and as closely at they would lie on the car. They were passed through the formace and were in the heat the same longth of time as No:: 2 and 3 Grandal briquettes, and, as you will see, are certainly a good deal better.

Briquett No: 4 is from a mixture of 30 parts magnetite and 70 parts homatite, and No: 5 is a mixture of 10 parts magnetite and 90 parts howatite.

No: S I consider a most sovers test no all the fine dust had been washed out of the ore and this, combined with the high percentage of hematite, makes a mixture to briquett which, according to former theories, would be impossible.

A quantity of No: 3 mixture was made into briquettes and passed through the heat in one hour which equals putting a car in the furnace every quarter hour. These briquettes are marked No: 33.

From the sample briquettes it will be seen that the high presend ones are much better than those made by the drop press.

That added "fines" are not needed as demonstrated by No: 5 as the concentrate from which these briquettes were made had not half the unount of "fines" that our regular concentrate contains.

That the length of time in the hoat makes no difference providing the temperature of the briquett has reached not less than  $1350^\circ$  centigrade, as proved by the briquettes No:33.

That hematite makes just as good a briquett as magnetite, providing the temperature in the furnace is all right, as proved by briquett No: 5.

That briquettes can be piled one on top of another on the car previous to being placed in the furnace, providing they are made with a sufficient pressure to withstand the weight, as proved by friguett No: 3.

These experiments have only proved what I have always held, - that to sake a ancouncied briquett, high pressure is of the first importances: that "fines", other than those produced in the regular grinding of the ore, are not necessary; and that unless some gain can be made in elimination of the phosphorus by finer grinding, it would only be spending money unclessity to adopt it, and that, if adopted, wet grinding would be entirely out of the question.

The Grendal furnace is very simple in design, cheap to build and not liable to get out of order, and does its work. There is very little difference between the Grendal and other tunnel furnaces with Which I am acquainted, but it is probably the first time that such a design has been adopted for the rurpose of making briquettes.

If we were to adopt these furnaces I would suggest two alight improvements - one being that expansion pockets be left in the fire brick lining to take care of the expansion; and the other, that the sub-structure as seen on the plan can be entirely done away with, providing the forced draft be introduced which would be much more effective and place the furnace under much better control, making it entirely independent of atmospheris conditions. This matter I have talked over

with the Engineer who has done all the designing for Mr. Grondal and he is entirely in accord with these  $\sup_{G}$  estions.

The advisability of building the furnaces in units of four or aix was talked over, but this is something that cannot be decided immediately as it depends a great deal on the ground available. and I think will have to be left to Mr. Simpkin to settle. This much however I would say - that too large a unit should not be adopted as it would mean too many furnaces idle should an accident haven to one of them.

I cm, Gentlemen,

Yours obediently, (Signed) J. B. BALLANTINE.

DUNDERLAND INCL. ONE CO., Ltd.

Minutes of a Meeting of the Works Committee held at Fitzalan House, Arundel Street, Strand, on Wednesday, August 6th, 1903.

Present. Mr. Ainsworth (In the Chair)

Mr. Rhodes.

Mr. Villiags.

In attendance, Mr. Pollen. / Part of the

Professor Louis,

Hr. Ballantine. Mr. W. Sim kin.

Minutes of the Meeting of the Committee held on 1. Tuesday June 16th were read and signed.

### Grondal System of Briquetting.

Prof. Louis' Report dated July 20th on the recent visit and experiments made with the Grondal System of briquetting at Herrang, and Er. Ballantine's report dated August 5th on the same subject were read.

The main difference in the conclusions of these two reports is on the question of whether "added fines" are a necessity in making these briquettes, but there was a concensus of opinion that the addition of fines would probably give a harder and stronger briquette. After careful consideration of all the points raised in the reports the Committee make the following recommendations to the Board :-

1. THAT THE GRONDAL FURNACE BE ADOPTED FOR BURNING OF BRIQUETTES MADE BY THE COMPANY.

As regards the size of furnace the Committee recommend:-

(a) It shall be of sufficient width to permit of taking a car 4 fest 6 inches to 5 feet wide.

The reason for the present breadth of the car (3ft.) in use at Herrang is stated to be that the men placing the

briquettes on the car work on one side of it only and are therefore unable to cover a greater breadth. Arrangements will be made for men to work on both sides with the breader car.

- (b) That the furnaces be built in units of four tunnels of the broader type. Cortain other modifications of construction etc. to be considered by ur. Simpkin when preparing his general plan.
- 2. THAT THE COMPANY ADDPT THE MOULD PRESS FOR MAKING PRIQUETTES.
- The Committee make this recommendation because it appears to be proved beyond a doubt that the briquettes made under high pressure are superior to those made with the present press used in the Grondal process which is a drop press.
- 3. THAT THE BRIQUETTE ES A SQUARE EXCLUSTTE SIMILAR IN SHAPE AND VEIGHT TO THE PRESENT GRONDAL BRIQUETTE BUT WITH THE CORNERS ROUNDED OFF AND THAT FOR THE PRESENT HAND LABOUR BE USED TO PLACE THESE BRIQUETTES ON THE CARS.

The Committee make this recommendation because they consider it of the very highest importance that the Company de not adopt at the commencement of their working a method which is experimental.

The question of whether briquettes made under high pressure can be automatically damped on to the cars has not been satisfactorily demonstrated although there seems a strong probability that this can be done. There is, however, no doubt that the use of hand labour onsures a good briquette and the Committee is of opinion that to dump the briquettes automatically would be to run the risk of placing an inferior briquette on the market and joopardising he sale of the Company's product. For economical handling, the larger and square briquette is necessary: for automatic dumping, the

smaller and cylindrical will be required. Should it be horeafter found by experiments that an economy can be effected by the automatic dumping, and that the cylindrical briquette will stand, being carried on a conveyor to the cars and dumped, it is understood that the same Mould presses can be utilised, it being only necessary to change the dies and plungers.

4. THAT THE WHOLE OF THE CONCENTRATES USED RE REGROUND SO AS TO GIVE ADDED FIMES.

The Committee make this recommendation because it has been proved that added fines give a satisfactory result whereas the briquetting without added fines although quite possible has not been satisfactorily demonstrated.

Whether additional fine grinding rolls are placed at Storfoshei or at Guldsmodyik may be left for further consideration dependent on Nr. Simpkin's report us to whether the necessary plant can be put down at Storfoshei without serious disarrangement of the plans on which the work at that place is now proceeding.

The question of regrinding the magnetite only as it comes from the magnetite separators was discussed but the Committee have come to the conclusion that there are too many difficulties to contend with and no apparent advantage to be gained in the way of increased purity of concentrate.

Copy.

August 31, 1903.

The WORKS COMMITTEE,

Dunderland Iron Ore Co.,

Fitzalan Honse,

Arundal Street, W.C.

Dear Sirs,

Acting under your instructions, I proceeded on July 8th to Herrang to Join Prof. Leuis and Mr. Ballantino in an investigation of the work of the Grondal furnace. I arrived at Herrang after the work of actually firming the briquettes of the Dunderland concentrate had been completed and just as some of these wore about to be taken out of the furnace. Both Prof. Leuis and Hr. Ballantine kindly put we abreast of all they had done up to the time of my arrival and I have also had an opportunity to read their reports and listen to the discussion of the same at your meeting.

I agree with them in that satisfactory briquettes were produced by the Grendal furnace from the Dunderland concentrate of different proportions as stated in Mr. Ballantine's resert and as shown by the samples submitted to your Board. I also agree with the suggestion that should we adopt the Grendal Furnace, they ought to be made wider and Longer.

Whether they are to be erected in batteries of four or six, or singly, I think is a matter that cannot well be determined until the whole scheme, cost of construction and cost of handling the material, has been thoroughly worked out.

I do not agree with the cost of briquetting as set forth in Prof. Louis' report, as my calculations show not less than five pence per ton for labour only, not including the men at the gas producer, and this is based on working three chifts per day of each eight hours, and paying the men Kr.3 per shift.

Mr. Grondal in his English completed patent specification No:18429, July 10, 1902, says, -

"I find that if the ore is sufficiently sub-divided it may be brought into the form of blocks by mixing it with water and stamping it into bricks which are immediately burnt in a suitable furnace."

Prof. Louis says, -

"The more finely ground the ore the better are the resulting briquettes."

It is very unfortunate that the Grondal people tampered with our concentrates before the arrival of Prof.Louis and Mr. Ballantino, which however they did in direct opposition to our instructions and for reasons only known to themselves.

Mr. Ballantine mays, - "They mixed the hematite and magnetite concentrate together and ground up 30% of it to fines before our arrival at Herrang."

It is not clear to me whether this means they ground up 30% of the concentrate to try and make fine, or they imagine they actually produced 30% of fines, as after this mixing and grinding it was hardly possible to find how the concentrate stood with respect to the supposed fines. I understand wet grinding in a ball mill was the process adopted, and if so I do not hesitate to assert that little or no extra fines were produced from our ore. After hematite has been reduced to a certain size, it would be hardly possible to grind it finer in any mill such as they at present have at Herrang. Magmetite is somewhat more amenable to reduction and if a small portion of fines of magnetite were produced in the grinding, I am sure they were afterwards washed away. I will go further and say that our concentrate, after treatment by the Grondal people in their mill, which concentrate was afterwards made into briquettes by Prof. Louis and Mr. Ballantine, had less fines than the original concentrate as shipped by us.

As before stated, it is a pity our concentrate was tampered with as it prevented any comparison being made between

the relative fines of the Dunderland and Herrang concentrates and the amount of what is termed "added fines". Mr. Grondal is wedded to 'added fines' and Prof. Louis advocates the same but evidently without having used any means to find out the actual amount of fines which he says need to be added to the Dunderland concentrate, nor does he say the amount of fines which they assert is used with the Herrang ore. As far as I can gather he has simply agreed with the statement made by Mr. Grondal, and neither of them have said what "fines" are.

I do not agree with Prof. Louis in his statement "that can more finaly ground the ore the better the resulting
briquettes" - as my experience has shown me that you can grind
the concentrate as fine that the briquettes in passing through
the furnace will burst open owing to the impossibility of the
steam formed from the moisture in the briquett being able to
escape. A proper mount of fines, or as Mr. Grondal puts it sub-division - is necessary, and I claim that we have in our
present concentrate all the sub-division we need.

Our concentrate is ground so that it will pass through a .018 screen, and therefore is .016 and less. I shall be pleased to show the Committee that with our concentrate, having a mixture of 70% hematite and 30% magnetite, over 45% will pass through a .007 screen, and less, and that of the magnetite concentrate alone, more than 50% will pass through a .007 screen, and less. I have been given to understand that when Mr.Grondal first attempted to man briquettes of the Dunderland concentrate, hematite alone was sent to him, and as pure hematite contains much less fines than our regular run of concentrate, I think this has probably caused him to bring up this matter of added fines.

I understand Mr. Grondal crushes his ore and then separates it, and afterwards grinds a certain proportion into what no calls "fines", but I coubt very much from what I saw when at Herrang whether there are more actual fines in two Grondal concentrate as it goes to the briquetting press than in our general run of concentrate. Grondal's concentrate, I feel sure, is not originally ground as fine as ours, and it is for this reason he must use added fines.

To put in a set of re-rrinding rolls, with the attendant meters, conveyors, etc. will cost about £4000. It will cost not over £100 for one of the Committee to go to Herrang with Nr. Ballantine and see briquettes made from our concentrate of the improvised press which is still there, with the addition of factor only as a binder, and with no added fines. The rentleman could first accompany Mr. Ballantine to Richmond and see our concentrate boxed in the proportion of 70% homatite and 30% magnetics, and these boxes could be afterwards sealed and sent to Herrang to avoid any tampering with their contents, and I can assure you that if this is done you will see more satisfactory briquettee made than Nr. Grendal is new producing with the alleges addition of rines.

Water has been used as a binder in briquetting many substances, and there is nothing new in its use. Mr. Ballantine when at Pittsburg, at my request, made briquettes on the Mould machine out of the regular Dunderland concentrate and without any added fines, and these briquettes could easily be handled as they came from the machine and without having to use a trowel to lift them as is the case with those made by the Grendel press when using the Herrang concentrate.

I may add that I am reasonably sure we can automatically handle briquottes made from our regular concontrate if of the proper form and made with a proper press, but I entirely agree with your recommendation that it is better to remove the briquettes from the machines by hand until we have had an

opportunity to try the automatic handling in actual practice. My conclusions therefore are, -

- That the Grondal furnace will work with the Dunderland concentrate to our entire satisfaction.
- 2. That the furnices should be made wider and longer so that we can handle at least 3000 lbs. of briquettes per car, putting in and taking out a car every 15 minutes and only using 30 tunnels.
- That high pressure in the briquetting machine is absolutely necessary to produce a satisfactory briquett.
- 4. That only a contain escent of sub-division is required in and Denderland concentrate to make satisfactory briquettes and enact in our regular concentrate as it will go to the briquetting machine to have all the sub-division necessary and that we do not need to re-writed for added fines.
- 5. That Mr. Grondal, if we decide to use his furnace, shall furnish full working drawings of the proposed furnaces, with the changes as set forth, and that afterwards if we have any alterations to suggest, the same shall be submitted to him for his approval.

Yours truly,

(Signed) Wm. SIMPKIN.

September 1, 1903.

P.S. Since writing the above report I have received from Capt. S.H. Pollen a box of the Herrang concentrate, with the "added fines", just as it goes to the briquetting machine, which was sent here by Mr. Grondal. We have carefully dried, screened, and weighed the sume, with the following results:

6% of the concentrate was left on a .018 screen; 54% of the concentrate was left on a .007 screen; 40% of the concentrate passed through a .007 screen.

-5-

We carried out the same experiment with the regular Dunderland concentrate - 30% magnetite and 70% hematite - with the following results:-

All of the concentrate passed easily through a .018 screen.

48% of the concentrate was left on a .007 screen;

52% of the concentrate passed through a .007 screen.

Thus it will be seen that my surmise is correct and to have more fines in our regular concentrate than the Herrang concentrate has with its "added fines".

This experiment was carefully made three separate times by a man accustomed to laboratory work and the concentrate in each case was passed the same number of times over the screens.

We shall be pleased to repost thuse experiments for the Committee at any time as I think they conclusively show. us that we do not need added fines and therefore can save the expense of the extra set of rolls, etc. Standard Construction Corporation Simited.

Titzalan Koușe, Arundel Street,

No: 30.

que to Henter

THOMAS A. FDISON, Esq.

Dear Sir,

Rnclosed please find blue print F.322 which kindly substitute for the B.322 sent you the other day with the other Blower prints. You will note that I have changed the number of blades from six to eight which will give a more even current

We are also mailing you under separate cover a set of prints of the 7 ft. Rolls as follows:-

C.105. 106, 114, 131.

B.121, 122, 123, 124, 125, 131, 132, 133, 134, 135,

153, 162, 216.

015.

and not so many pulsations.

Yours truly

Standard Construction Corporation Limited,

Titzalan House, Arundel Street, ENGINEERING DEPARTMENT -London, w.c.

TELEGRAPS: STANCOLLI, LONDON

No: 31.

September 26, 1903.

THOMAS A. EDISON, Esq.

Dear Sir,

Since sending you the drawings of the Blowers I have decided to make the shell of the blowers of h" material, stiffened where necessary with angle iron, instead of out of 1/16". This adds very little to the cost of labour and will make a much superior job.

We have completed the small set of Fine Grinding Rolls and are now putting them in at the Laboratory. We shall build a blower exactly of the size which we purpose using at Dunderland and shall be able to carry out some very interesting experiments so as to find out the proper speed and also the best position for the baffle plates, and to decide what number and size of acreens we must use to equalise pressure.

The General Meeting of the Dunderland Company was held on the 24th, a report of which will be sent to you, and I will simply say here that everything passed off wery smoothly and what the board has done met with the approval of the stockholders.

The Dunderland Iron Ore Co. have finally decided to use the Gröndal process for briquetting and have given instruction to take up this work with Mr. Gröndal. When I have same in a condition to send to you, I will mail you a complete set of the drawings so that you can see exactly what the whole scheme is, and it may be if you should eventually put up a concentrating and briquetting plant in the States, it will be advantageous to use this or a similar process.

It is very likely that I shall make a trip over to see you early in the coming year, as I hope by that time to have everything crystalised for when I go to Norway it is my intention to remain with the plant continuously until it is in operation.

So far, everybody who has worked with me is very enthusiastic about the work, and I have no fear about bringing it to a successful issue.

Win Simplein

Awaiting your favours, I am,

Yours most truly,

Standard Construction Corporation Simited,

ENGINEERING DEPARTMENT

TELEGRAPS: STANCOLLI, LONDON.

Titzalan House, Arundel Glreet, London; w.c.

No: 32.

eptember 28, 1903.

THOMAS A. EDISON, Asq.

Dear Sir,

Confirming my late letter, I enclose you herewith a copy of Prof. Louis' report on briquetting which was read before the General Meeting of the Dunderland Iron Ore Co. as I think it may be of interest to you.

Yours truly,

Vm Simplin

with Little #32, Fator Sp. 28 1183

Copy of a letter from Professor Louis to the Chairman and Directors of the Dungerland Iron Ore Co. Ltd. dated Sept. 18th.

Gentlemen,

I beg herewith to report summarily upon the Briquetting Process, which is now under your consideration:

The fincly ground concontrate produced by the Ediscn process, and concisting as you are aware, of a mixture of specular hematic and magnetice, is moistened with 7 to 8 % of w water, and is moulded into blocks about 6 inches square by 3 inches deep, under a powerful press. These blocks are transferred to iron cars covered with Tirobrick, upon which they are passed through a tunnel-like furnace about 180 feet long, in which they are heated up to a temperature of about 1800° Centigrade. The furnace is gas-fired, the air nected for combustion being heated by passing over the burnt briquettes, which are thus at the same time cooled. The result is that a marked occordy of heat is attained, the consumption of coal being under 5% of the weight of the briquettes.

I have watched the process in operation on three separate cocasions, spending each time several cays at the works. Two such briquettin, plants have been in operation for some time in Sweden with very satisfactory results, working however upon magnetite alone. The works which I visited have mean ever 2000 tens of these briquettes, a considerable quantity of which have been shipped to this country; tacy proved to be of ample atrength and hardness, arrived in good condition, and gave entire satisfaction. By experiments have shown that Dunderland Ore can be briquettes as successfully as magnetite in this way, a very slightly higher temperature alone being mooded.

I had about a ten of briquettes made from Dunderland cre, which were shipped home and were quite satisfactory.

The rurnace is simple in construction, so that the plant is relatively inexpensive, the costs for fuel and labour are by no means high, and as far as can be judged, repairs and renewals -2-

should not form sorious items. The briquettes produced appear to fulfill all requirements of strength and peresity, and are superior to any others I have yet seen. The process is therefore in my opinion quite satisfactory.

I am, Gentlomon,

Yours obediently,

(Sgd.) Honry Louis.

M.A., A.R.S.M., F.I.C., F.G.S., otc.

Professor of Mining.

Spariture 30 parties

Standard Construction Corporation Limited,

Titzalan House, Arundel Street, London; w.c.

No: 33.

TELEGRAPS: STANCOLLI, LONDON.

September 30, 1903.

THOMAS A; EDISON, Esq.

Dear Sir,

#### Re. Fine Grinding Rolls.

I would like to know if you have found it necessary to arrange for ciling the blocks which carry the bearings for these rolls? I mean the blocks between the top and bottom girder as they are almost constantly moving, slightly, it is true, whilst the rolls are in operation.

Yours truly,

# [TO WILLIAM SIMPKIN. OCTOBER 12, 1903]

133 ok 134

B-342 = Think this flooring too weak Cell the beg pieces are lifted up on the teeth & top of dipper and drapped into the skips, sometimes they do & 3 for more pieces weighing 10 to 15 tons do not give a gentle top. The strain due to impact is terrible of it takes strong cars to stand it = We lind at Edwar-Cans with outside Otringers - 6x10 - monde 4x12 - the top was the same, Coment Cos Can is alranger both are entirely to weak ofor 6 ton Okips there fore you can judge the true cohat B 31/2 will be = see our axles are 3 1 and are Entirely too light and you will have twice the load and four times the stress from impact due to drag big Chanks from the dipper top.

Don't daget the Extra peices of Limber
ton top of can above the sequent floor
toquide the skip on Each side of it
contents
Rement of kip wants # 617-one
Near end of kip want water to run
uch hales forto permit water to run
out = Otherwise skip OK

to nut-preference door should have

C-136-She Hope door should have

place usuale to kee a Much from

otherwise OR

C-137= My impression is that on the first 5ft rall 9 alound Controlled happen as the Chamber and large at the pounding to terrible. The roll throws the Chamber out of dead line-your Ether stiffent the other 5 ft ralls well be as k withing sees perf with except that your wear plates will brave to be renewed after your wear plates to the coral was could be repeated the coral was with the coral war with

B 269 - What Rund of a rigging one your to going to use to prince time you to hand roll doors - We Use windlass - rate test - this makes it 2 any for inspecting plate which should be time a week!

B-269 = Sotte arrangement out the front

If trall for removing hopper heavy enough

I truck dint-will get in a distant your

Though Dond you thinke it should be

Covered.

There will be a dot of spitt of ore from

Open place, under the shope gent

South of Ear screens trouble

End up better be prepared for trouble

South your better that out the first of ft

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rates that the Gottom Edges of the hopper

underneath Rolls having no support

underneath Rolls having no support

under self be pounded out of shape the first

will be pounded out of shape the first

others the Edges was the horse the better.

1

· B-270- 9 think happen when 3rd off wo rather wrotable, as you have two at ites king to at one to the 4th soft the all to the 5th Set - the 3 war and on 2 mile happer from 4th or 5th oct you have Long up puch the alive down you will containly have transfe have

1 289 - The bottom of this hopper is entirely to facility to not backed up 2 2 2 2 nough The et. Edismunder om four foot races we had manplate backed

up by three fret of volid timber and it bent it or bad refer a some months new that ore worldat run out of hoppery The Cavity filled as made a now slipping out are - we kept ( trings going by scenewing plates now the was not under Grants. The Grants of Comout are smaller Chartal Eding have simasser Chunks yet we have a thick your quant the chunks will be very much larger than al Edison owing to the greater weight of the ore from high quality and the great fall of 26 feel at the q

quatopood die to the combined Effect the Roll & gravity the Concussions will be gigantie at the over an ancam of 2 or 3 ft from the Couter line, - on the the broking you know would hast notime attace on the other hand if the mill management is were discood of laught that the hopper must never 62 run so simply that the ore well other the olack place but always the ore you will have no trouble et is for you to judge if they Can be trusted to do the

Something is covering with the ragilating rail of the Palla find machanism Continued out on the security 62 Bonne too fair, count understand buy about rall often war as in the details of the rallar feed as their is very important ito have the furt right attentions you will having Bridging of ore with hoppert this to store to your daily Capacity being lept up growthit details also of pour gean & drive. The hopper chute above talle feath in which poqualing rall is ocens to 62 unstably How can man get in with , break up an ore anch ohned it occur us it does often

i

B. 290 See 2009 13
B. 291 dello.

B. 292 - think there when he considerable were plate onvides of rolloward conflict while were have to very conviderable in the word of E Expensions to the wine account the work of Side: browness as ownice so continues o work of the Side: browness as ownice so continues o work of the side of were would be the story of the side of

B-293 Secretarion 25 13

B-293 = etc Sec preums nates

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13 304-0Kappa See nowaks 13 269 W13-365-OK B 366 = Sec 19montes, on B 269 - also 2 fear A gray that Dundaland or will soon out accept chutes and so rapidly that you must contemptate nemering the wrat hav protes with chilled plated - Even the chack is cetting the 6000m out af our chutes at Coment works to here ore goes from 5 dumps to. the Glowers and we are getting ready to suspense by cheered plate see skelch NOZ and of this is

true of a trifling amount of a soft wateriel what were it be with he any Loadous Citting orz or heavy opening or gravily as \$ 307- Sec 30% Thunk cast iron check plate, in a not waying acromy the property like a said and in the control and a said a said and a said a sai that we you will note that in all my remarks that I fear you happen aviangement on this rath gam sure that it will not stand up 13 310 = White though a Rock peace way example The Racket but there will be no manging for oufsty- 2 do not like the unstability of occurring the check plate, the tracky whatevery stable thing to faston it to.

Oreces of ore get between tite of rafter the - Chock plate, and the chock plate countain-houte act are crushing surface, you can imagine color train it will be subjected to, our chilled plates cover alroads be a king on 36 inch rolls - They are knowledged.

B=311 OR

B=312 - Dhelf too lights the edge will ever one of such to character below it will wear off sheef to character below it will wear of the sheet free with wear place (out the free will old our wear place (out the will deep will stand of this should challed deep will stand of this should be made Easily renewable some of be made Easily renewable some of continuously on one spot no one

Can realize its effect when en quantities are parioted = B=313- 80 312 B - gate shales of the kind 5 , Jeour work ore gets in and shedge havemens will not budge thom - thequesik on Cral because you can arrive that - as the Africe above the pushed in grate will yelling with ore there will be and atom about 3/4 of a lon pressing on the gate of Sometimes theo gate must 62 moved quick - there is a wedging a often of the ore on gate at the scort ducto pressure of pieces cliq in aft plate a lock it, then Comes The , cladge havener. Something like of 3 will have to 62 word This is used at Comout work on 3rd 36 Raff chite

B-314 Court Lecc how the delivery will work without section out tail pulley of Gelt. word, its a Ticklish operation to dollwar Afra tous on hour on a hackage of a quest amount of Experience = 90th first count we moon dela This brench of the Guscaiss should be fully detailed romanilled for criticism or it will cause a great incontrol Recapitanece a Expense B 316 - Why de you depart from Osteal Casterys fort

> ly do not approve of the happer on the grants at all - It should 62 water of steel Cartings

for grants g

dike that on the Grant at Comentworks - but Twice co heavy = In my opinion the happer Shown would not last for one days Cricking - at Court of thouse at Edigar ive had hopper 21 was Olcely with the Every 12 moles with Rich 21 though at 6 deep the threat on the end po oters cefte lapper cons (alone on the balts at Cement wakes the thrust of End of ales They are constantly be aking

Your enousins well probably Me 3 or 4 times what we had at Editar Chilled plates we het was and - as abelled plates are y can Dec have you are going to take Them out welland taking The happen to pieces - There disked Evacourpto hack Happen. in atively Except at foots of against beams - you know we - have four Rods 5 andles,

You havint got the Roller find above grants right - a sort foot chunk coll give a Trajectory landing it on top of the roll- which is very 6ad, 7 stplained this once Gafrie to you, the Mill at Edisin was sheet down 3 weeks and we lost about ton thousand dollars that you apparently ignore all

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Rolls that you better realings the good offerd and out follows the Expensione goined at Erican of Coment of Send Conrected drawing = and with Connection stick to ald Tecitad recla of making Lots of mistakes in getting showing roll at race is to have the stragger & Colesi They should be on rock faitherest away from Raller (Ex) Leave aff the Extension of the happer above the Top of

The rather food than culous ready to rien a sheeld only about 22 high of partly wind Can be put and as its only to quand man cleaning skips 4 Fuller food from 6 englittey stry Rocks - at Cement Our otcal Casting Comes cup Lavel with The Troller feed -You have hopper Extend over racles feed How to you Expect man to clean outokip a top of each okip

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it couldn't be done tryet its If you want any drawings, for Comment or Edward Ywell with (thom - Doc oketote of No 4. Shrang trajectory woheal De nicht Commerce for Lange Chanks as the smaller Duff inter take Come 16 the ( = you do not soud any details of brangs-Dumptables, Ruff drive Etc, - It

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23,

as-they are sho

Quento me that you would have onced a great deal of fitting a memory of the hor out a great as great as before make there a territorial and a second a great as great as for the make the second as a B 319 . See prévan 21 11 C A 172 Dec note on 13 289 - 15 292, 18 300. A=176-would like details of girden Hat Rolls pot on by law of bracing. these & gordens Nave Gren Criticized Gerfore

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to that delail, my experient will not

A 160 - I think your monolithe one all right for strongth or that as

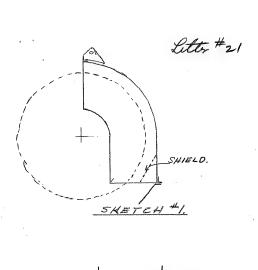
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Shown in :019, are not shown in

Venoboard send general & Detruit drawings of Dryon of Councilians as other may be changed in Setails that may turn out translessome

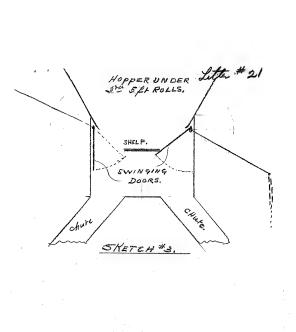
We have not received any corrected Eller ferris of the 1.4 2. man 3 m. 5 foth Rolls

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#2.

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LINE OF MORPER
AS PER BLUE PRINT
B. 816.

THEORET WAY,

T'S' POLLS.

SHETCH#4.

## [TO WILLIAM SIMPKIN. OCTOBER 13, 1903]

(11 Letter # 22 B 330 - Balantine got Coment Co Glace prient - The plates are about right. but Itmay 62 that Dund a cound ore will not deffuent and you Should have Dalarline set their sight on a full sign Experience Model which Hunderslan you have in London with the Low to Divice leave this drawing for you to approve - as to the delail on drawing the of quater in a plate is all right for butfuces, perhaps it would be wall to Catter 6 or when finally assembled heat or burr over as they are

in apartim where they will recove no altentim Nale please show infulme drawings for indelails if you intered a Catter or other way of locking this wice save me lot of writing as & always spat 20 my mut Chat Can get loose B322 = Janpare you have determined on your fullsiged model 6 Power that Eight 6 Pades is batter than six - but if you have not would it not 62 Getter to stick to six as we know this

~73) sie war why Eight wonedut 60. Getter Twenchif change without absolutely Kuch from Experient that I was 62Ther 2 have been Caught too many times on these celf Evident per opartims to makes yehanger . The increase in diagr from to 6 ft 2 suppose you have tried with the changes I approur of these changes from identy you have tried the Experient on full size of madel of found them cell right with the ore therep.

Inata That my our teller of May 2nd No22 you stale you w deemake the shaft at House and Letteen orderaths de auntery allere as in B-322 it is aly two and fifteen systeculis The View of Surtranoles with a haft at Count y counal approve of making the shaft any lighter than three a fifteen six (could

Jwant to Call your attention

parlicularly to the fact the

fans chouch 62 Galanced on

the shaft- owns at the Cement

were not hence our shafts are

bent a bearings are cultury, the

whole thing a source of infinite

transle of Expense

drawing of Blower with Gaffle plates Racler Jed Teverything on plate of them I can hake at more with blind now should drawing sent

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would like a 6 fue point of the. on fan shafts thow you Uto hours alignment if so long ( ) of Committees cooks well of your do ! What is the worden door for m the lower Loff hand downer Where is the lattice openings in baccom with sport to lat dust accumulating in fan bettom down into main chut, I suppose you tilend doing revery with The Diction air fluet from top of dust Bins, using free air from Will gutting sid of the air blown in by some me and unknown to me if this is correct & do not approve coff it & Know that it will not 62 assuccesso

all red power tilly for any change made from the plan at the Coment works I Tried Catherine do far as I can se undersland (he governed dean of 6 lower Guilden you intand Exhauting from Cace the obosins and Gy & long duct, if your 200 of you put on exhauster at one End or even at Gothenda from Sucha world ne seen

to draw the air out of the Chambers will have to be so que it ( a c the first, seem and Third Chambers will have a chought Strong Enough to Quakelle ore doer - Pam Dany you have departed from an actual successful working 6 Power house + go in fel changes on the most Hicklich Operation in the Plant - perhaps I am

Wrong in my de Luchaus to ait the . I cans one milled are not close Do I contell properly contest is with the Kock Shoned your the Co acaide to go into the change in the Glower house nections, you better insure yourself agoinst a Jachus Gy Land designing the Carporet that in Case efficiel fail you could put in the return flues which in my opinion you will have to

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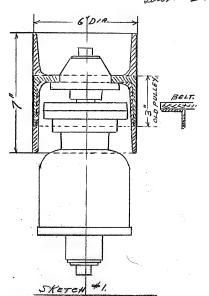
220 01 B 221 OK B 222-OK B 223 OR B 1224 - OKExcept don't winder Bottom "Hardlohat is Shaftlong so sunce a dia with the others Want 6 he punts of all idler & scoungs also side icles -Nate the side id Cons of Coment changed as the L Rubber

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Calches top of faction. Occ skilch No 1 — attached bere with, B-225- I nate tail pulley shaff · close not have any themse Callars in bearings - How do you take lateral movements Want Blue prints afall B-226 - note oane as B 225 ar first 3 shafts - The House other Chafts have thrush in 6 sangs

(13) B-235 OK-B-240: Have no of Twide + of you a the Cal Canat lecc. andhung a Bout

Pth # 22



CHANGE IN LENGTH OF SIDE IDLER

PULLEY.

Standard Construction Corporation Limited,

ENGINEERING DEPARTMENT

Titzalan House, Arundel Street,

TELEGRAPS: STANCOLLI, LONDON

Dear Sir,

I am sending you by the American Exp ing one of our idler pulleys. I have refrained from sending this until I had made a prolonged test of the same under the most exacting conditions, and I am pleased to say that I have no fault to find with the bearing in any way. You will see that this bearing is adjustable to any angle and so is readily put in position. In this - one of the smallest bearings - you will perhaps find an objection to the manner in which the oil chain has to be placed on to the end of the shaft, as for some reason or other the position of the hole on the top of the oil chamber was altered by the moulders on account of the coring: this, however, has been changed. Even with this bearing which I am sending you we find no difficulty in getting the oiling chain into its proper position, as we take out the bushing, and after laying the bearing on end we put the chain into its proper position and drive the bushing in far enough to hold the chain in position until we have slipped the bearing on to the end of the

T.A.E.2.

shaft; then by means of a screw driver, or other suitable instrument, we force the bushing back to its proper position and the chain naturally is left on the shaft.

You will find on the bearing sent you, raw hide washers. These however we are not using, but washers of thin copper which are all right.

Yours very truly,

Win Simplin

Thindly let me throw it the commerce. or purming again =

· Standard Construction Corporation Limited,

Fitzalan House, Arundel Street;

ENGINEERING DEPARTMENT

TELEGRAMS: STANCOLLI, LONDON.

No: 35.

London, W.O.
October 15, 1903.

THOMAS A. EDISON, Esq.

Dear Sir,

On May 20th, I wrote you in my letter No: 22 that when you received the drawings for the Blowers you would find we had made the shafting 3 15/16". I have just discovered on going over these drawings, which I had not previously checked, that although I had distinctly stated the shafts were to be 3 15/16", for some reason or other they had been drawn up and figured 2 15/16". Please note that the Blower shafts will be 3 15/16 as stated in my letter above referred to.

Yours very truly,

Wm Sumpkin

## Standard Construction Corporation Simited,

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L UETTERS SHOULD BE ADDRESSED; -	Litzalan	House, Aru	ndel Street:	
NGINEERING DEPARTMENT.	0		0.1	
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( within	No: 36.	ζ	October 17	1007
Mar 10/03		J	October 17	, 1903.
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THOMAS A. EDISON	I, Esq. 🕡	2 are r	erry	
bi a		a Tuin		
Dear Mr. Edison,	, ,	******	1 - 1	^
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than you had anti-			<u> </u>	<i>J.</i>
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	rours ve	ry truly,		
		1 0		

. Standard Construction Corporation Limited,

Titzalan House, Arundel Street,

TELEGRAMS: STANCOLLI, LONDON.

No: 37.

London, w.c.

THOMAS A. EDISON, Esq.

Dear Mr. Edison,

Your two favours of the 12th inst. Nos: 21 and 22, were received last week, but I have delayed replying until I

could go fully into it and also consult some of my people with reference to several points raised.

In the spring, when I was in Florida, we went all over this arrangement of hoppers for the Crushing plant, and both you and I made notes on a general drawing which I then had with me, and it was then decided that a hopper built out of heavy boiler plate, and properly reinforced, would be all right. The material also from which the various hoppers and chutes were to be made was discussed and agreed upon.

The position of the feed rolls was also taken up, and so far as the feed roll underneath the Giants is concerned, with its attendant agitator roll, you marked a few changes on the drawing and on my return here this was altered and a revised print, A.172 (a copy of which is enclosed) was mailed to you on May 22nd (letter No: 26), and as we got no reply we took it for

Contraction of

granted it then met your views. I am requested to ask you to take the drawing A.172 herewith and mark on the same the exact positions in which you want these two rolls placed, and return the print with as little delay as possible.

I will change the big hopper above the Giants to a heavy cast steel one, and leave the upper part to be built of timber as at Stewartsville.

I will move back the feed rells above the Giants although I hardly think that this is necessary as our feed rell has only a peripheral speed of 20 ft. per minute, and in some experiments which we have made with a small model, everything being to scaled size and weight, the rock falls from the feed rell in an almost perpendicular line. However, you wish it and so it will be moved back.

I embles you another print 065, which please understand is a diagram only, and this will no doubt explain the agitator roll and the gap which you speak of, more clearly. It is the intention when running this plant that the men in charge shall always keep a cortain amount of material in the bin.

Let me take occasion to say that the class of labour which we shall employ in Norway is to my mind very intelligent and I do not anticipate much trouble in teaching them their duttes.

There are many other points you have not quite understood, and I regret that I could not be with you when you were

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going over our drawings so as to discuss matters and put them in their proper light, but as I cannot be ubiquitous, we must do the best we can. However, as we are going again over all the drawings we will try and make them a little more understandable when next forwarding, and where we think any point will be in

There is room everywhere for men to get in and clear out, and everything is properly held.

015. We have already used these rods and plates to draw on the centres at a pressure of over 80 tons. We simply marked to tons on the jack to show that it was a jack.

doubt, we will write particularly about it.

I mail you two photographs which show some parts of our big rolls, and I want to say that a better job could not be built. I have personally seen every part of these machines, had all the bearing sleeves and other parts that should be interchangeable tried all around, made physical tosts of all material - and am satisfied. The cost of these rolls which weigh 230 tons, is 4.8 cents per pound. I shall however give you a detailed list of costs of all the various parts of the machinery when the work is completed.

E.342. This drawing is only a diagram which was sent out to the various Car builders along with a letter stating our requirements, and we shall accept a car which has 6" x 12" oak underframe, 4" pine deck, all properly built with through longtitudinal and transverse rods, heavy wrought iron angle brackets, etc. and with main line axles, 4" x 8" in the bearing and 5" at the wheel seat: this should stand. I will not forget the extra pieces of timber on the top but will not fix these until we get the skips. I have decided to make the skips out of †" plate.

<u>C.136.</u> I think we had better put the shield on the lower part of the hopper and not on the cover: see my sketch herewith.

C.137. No, we decided on cast iron: we will, however, make of steel. You know we agreed on putting in wrought iron wear plates at first and if found all right to renew them with chilled plates. This I have noted in my book; and I am also testing some pieces of manganese steel to use as wear plates which seems to stand very well.

B.269. Will use just an ordinary hand windlass with ratchet, as you suggested. I am sure the arrangements for removing all of the hoppers are strong enough, and I intend to shed them sall over when in place, as I, with you, am sure they must be covered.

I will see that all nuts, etc, are properly

fastened. This will be drilled into everybody in connection with the work so I don't think you need worry about it. I will also arrange for chilled iron wear plates, or manganese steel if we should decide to use this as before mentioned.

I will send you a sketch of a gate slide that is working, and will work, no matter what the pressure is or what kind of material you are handling.

Charles Control

8.314. You have several times said you would send me a diagram of your delivery chutes at the bettem of the Dryer and for the last two rolls, but this you have not done.

With reference to these, and all other chutes, I am drawing them up and shall do as you and I arranged and as I thought you understood; i.e. to put in makeshifts mostly of wood and when they are found to be all right to put in the permanent chute; so when you get any of these drawings please criticise them from this standpoint only, and kindly suggest any changes, but don't worry about the weight of the chute or the manner of supporting as this we will take care of.

\$3.316. Some parts of this I do not quite understand. Before we left Orange we talked a good deal about this matter and you certainly suggested chilled plates as the wearing plates. Kindly say what you suggest now: we can put in anything, and I would say manganess steel would be a good thing from what I have seen of it. There is a large foundry here (Hadrields) - the proprietor of which is considered to be one of the finest foundry men and metallurgists in the world, and I have seen some crushing plants made by them for crushing grants up to a capacity of 2000 tons a day, and they seem to be running along without any troubles. It is true that they are not handling stuff such as our Giant crushers handle, but pieces from shout

14" to 16" long by 12" square, and this manganese steel stands very well not only for the wear plates and the lining of chutes, , but also for crushing plates.

Of course I know that we could not use manganese steel for our crushing plates, as for one thing, it cannot be machined on the back, but I think we might use it where we can for wear plates, as this hard granite seems to have very little effect on it.

About the bracing of the girders, etc. supporting the different rolls! I will send you a diagram showing this, and if you have any suggestions to make I shall be glad to have them, but when criticising again our hopper arrangement, don't bring in the supports as these are not thoroughly shown so as not to complicate matters.

Now with reference to the Blowers, - This matter we have given a good deal of consideration, and I do not agree with you that we shall have any trouble if we do away with the commenting pipes from the top of the bins to the Blowers. Our experiments show us that the putting of them in gives us the trouble, for how are you going to put soreens into these Blowers to equalise the blast and then blow the return dust through them. We have tried it, and it simply cannot be done, for it doesn't take many minutes running to so fill up the screens that the Pressure is all kinds of ways and not regular. We are experimenting very carefully along this line with a Blower of the exact size which we shall use in Norway, and we will take all the

Grand San

responsibility of its proper working, and will send you final drawings when everything has been fixed up, or I will bring them over with me on my next visit and get your valuable criticism.

With reference to the spiral casing, - this also is

the result of trials and seems to give the best effect.

I have already sent you one of the small idler bear-

ings, and will send you samples of the others when I have finished testing a few that have been made for me.

B.224. This bottom shaft is for the idlers which carry the empty belt only. I enclose you a print of our side idler B.246 (please note the date). We had already made the pulley 6" wide so I suppose this will do. You will see that we don't need to make them right and left as the two spirals cil perfectly no matter which way they go. I am running some samples which have been made for us and so far they have proved all right. The lateral thrust where we do not use a collar is taken up in the end of the bearing; this you will see when you receive one off these.

The Dryer drawings we will shortly send you.

Just as I was concluding this letter, one of the

Directors came in and requests me to ask you what is the

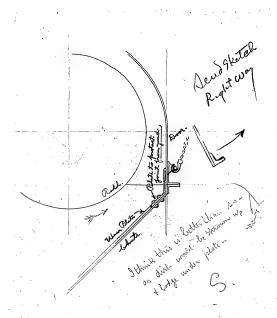
minimum and maximum life of the ropes on the fine grinding rolls.

Yours very truly.

Wm Simplin

Out wind

[ATTACHMENT]



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Standard Construction Corporation Simited.

Titzalan House, Arundel Gleet.

London, W.C.

38.

Optober 31, 1903.

ENGINEERING DEPARTMENT.

TELEGRAPS: STANCOLLI, LONDON

Dear Mr. Edison,

On again looking over your recent letters, it has just occurred to me that with respect to drawings A.125, 126, etc., the diagrams of the general lay out of the various buildings, you may misconstrue these - particularly with reference to the conveyor work in the head house. Please note that in these drawings we have simply shown the locations and have shown no details of the bracing, etc. All this work is properly braced. both longtitudinally and horizontally, and, as I think I have before stated, is at least 25% stronger than anything you have at Stewartsville.

I have been talking again to some of our people and I enclose you herewith a print which will show you how I am arranging the head pulleys for all the conveyors. This which I send you is for our widest belt and you will see is driven by two motors, both the motors and the gearing being in the dust proof houses which are open to the outside air for ventilation purposes. With the 24" belt we simply have one motor. The

T.A.E.2.

whole of these conveyors will be got up in this manner, and the bracing, etc. properly taken care of. Gun Forand is just.

More in Session to 9 must be be continuation of this until author day.

yours very truly

Wm Simpkin

Standard Construction Corporation Limited.

ALL LETTERS SHOULD BE ACCRESSED:

ENGINEERING DEPARTMENT.

FUZZALAN HOUSE, ARUNDEL Street,

TELEGRAMS: STANCOLLI, LONDON.

London, w

Dear Mr. Edison,

I have your favour of the 29th ult. and certainly am pleased to know that the Cement Plant is running in a satisfactory manner, and at the same time I am sorry that the boom has busted just at the time when you ought to be making something out of this business.

Everything is going along quietly here and we shall shortly be mailing you some more drawings. The trouble with the big out at MG still continues and the Directors want me to go out there as soon as possible and look over the ground, and I expect to leave here some time during the coming week so that if you do not hear from me for the next little while, you will know the reason.

Yours very truly,

Wm Simplein

Your advice that Coment blant is hunning will do good in the pight place.

THOMAS A' EDISON, Esq.

## [NOVEMBER 11, 1903]

of 2 sets genning for see your heavy Conveyors One large Water with 25% more power than you will ever on dante need, but very leberal width afgening Is what I advise from the Experiment we have so far-You can use a clow exced motor san 450 RPM-= advise 24 with on gear on head pullary of 14 to 16 auch for second - I you will make no mustate of you use very heavy chafts - flexibles are

with Granings on each Oide of plinion = Our flexible works toget et, yourspoke about a flexible which worsky catches & drives without clock - WE find this is a disadvantage by the slock we have whom are shot down we can turn water, 1/2 grantulian, fox brunkes clean Commutator or feel for a bind - our our starting up system Starto Stowly - Our garin Chamber of 10g- with 5to Horde Powei 18 X 12, not right and lamperature is kept V within 20 degrees of our seide

WE WERE compelled to use three 3 theclares of gunny for war walls of one for outside to keep leaks down = with no dust or float we nowhous no trouble with breuch opartering or glagung of sused dust WE have five impedore Each want has a certain af waters which he visits & Courtemes daily - He uspects for oil leaks, dust leaks, rubs The Ourface of Communtales a bette with Crocus cloth, our brushes OR-nuts all dight anotes the

The result is our mater eystern is as defection as anything can 62 que have no trubbe except where there is ar - Now I want to impress on your mind theserious character of Sharp jour a shaking on motors Where we have join and mators we Council keep the buces can from Opanhemy as the you is transmitted to them = the result is constant rougher cef Commitalir of marcasa af spark + change of brushes - -Even the Wators driving noths show have flexibles - top he to you about this made before,

The big It wish wise rope eflexible used as waller and 3N 36 Rolle is all right you can make Them to drive any amoun of power - If you use ourside and or draw it in by fan & forac out Horay Rigumy Idak out wat The air otheries will not be very dusty on certain durchan of lether evend - Cement works got. Knocked out in two or three place, when they ded this Thoulto go back to ald way

Look out a have a very large shift and ample Granings as well as many spiders on the Signaller that scrues ade of Contact of head pulley on Conveyors, We have had traible here until we made them Strong your upreght orde Idler showed

Mou No 37 Read - You must have misun not regarding the Happers for The greent rollwhen I suggested the use of sheet steel for hoppens of rolls in places of Cast steel it only applied to the form crushing Rolls. as Hoppers and quant or Intermediale were reconstructed Three Stranger Than the other at a Cost tome works, delap etc of over \$30,000, The requirements as to strength would not bekali, she memory - Irefer to hopping above top of ralls of sides - as to the happen below frauts for slorage that can be made af sheat steel two agreed on that in Florida I told you would have To but the Gallon be strong - you will not GE alke To depend men Keoping ors in the batton No walter how

hasto depend upon the meellequence of the ment will be a big failure - fox them so if neglect comes nothing I will send you the week skilch af Grant Hopper at Edwar & Rough skelal of my idea of that per for yold grant, ralos otornoje hoppen, fred rolling I refer to top + siles -If you get in rieply from a take it for growthed that it is all olghit you say that upper part of Hopper of gram ( at Steewardswille is of woodits of steel - the giput of Edward had wood of the no good - build of steel -(EEd roll above grants h

3

3

your Experiment with small feed roll must have been done bedy - a circle acts bonewhat like an angle Chity from the time it stands to olide it moves down a aircle a connot possibly followed an electric hear perpendicular it twos wood a click to dip it night but if wond it shid them it forms a large tropectory your enach that "However you wish it to you remark that "However you wish it to you remark that "However you wish it to a free with the work of ack" its not a question of my wishing it - its a greation of question it right is my data is based on actual working:

C 136- Dut well get in between door +
hospen your sketch we can't is Gest line
too have found -this sketch 401 deller 21

C 137 = 9 am sure 1st 5 ft rolls should have Cast Steel for hope I Thunk Mangamere ottal warm plates are good providing they we · wearfor the mone I awart oketch of gate slide, we have used Every conceiva 6 Pa one of not no Will send you chite skelches this week battan Afer or last 2 rolls -B. 316 - I never remember suggesting chilled plates in upper happer of grants Him must have misunderstood me' - we werer had them at Edwar or Coment or Chair is no need of Chain

as wear on check plates only commence when you get to finer rolls, Tlease take my notes in the spirit they are intended - I am only sending you witherom Gased on Experience in a stual work with such conservative changes that will tend to eliminate defects now met daily If you could a pend one month at Cement works. you wouldn't need any of my letters, Our ropes last on Rolls from 26 hours to 240 hours depending on state of the plates of Evensor of treed, there is and crushing Coment gov. through 200 mesh-with less presont for Coarser Crushing left will be langer token roll plates Chip off

Tood varies presoned its severe on ropes. Houldn't be much bell B. 246 = WE never had this Drawn before - see last latter in me making wich all drawings or parts approved by me finally are marked with proper Explanation are funder filed with the Dundardand From Org Co - or 9 will only be responsible for those of which (hundhas Goen two

Standard Construction Corporation Simited.

Bitzalam House, Annald Greet,

ENGINEERING DEPARTMENT.

No: 40.

London, w.c.

November 22, 1903.

THOMAS A. EDISON, Esq.

Dear Sir,

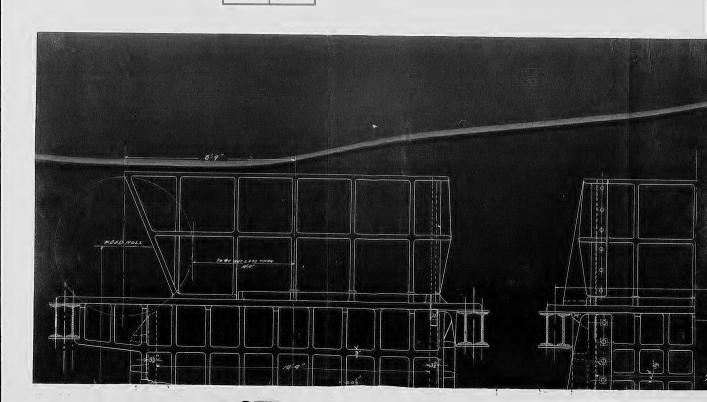
I am duly in receipt of your favour of November 11th, addressed to my Father. He is at present in Mo, but I have forwarded a copy of your letter, and he will no doubt go into the same carefully, and communicate with you in due course.

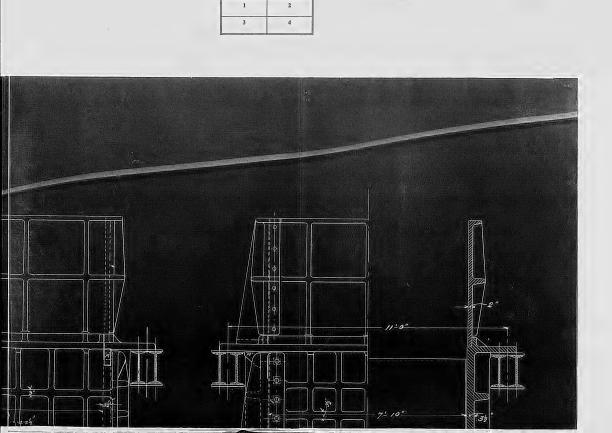
Hu Simpki

Lth #25-Simpking Inclose of please find B1728. showing Scient Roll Hoffen had it at Elison M. J. also plan & find Onfor Hoffen for your y's kell - this will give you a general idea of character and strength of grant Hoffen with occurs & m for my experience am Biff showing Delivery Chuts for 3 rd 36 Roll: A Conveyor #101. and from Juyer & #102 convey as they are put in at bemust plant

[FILMED IN SECTIONS]

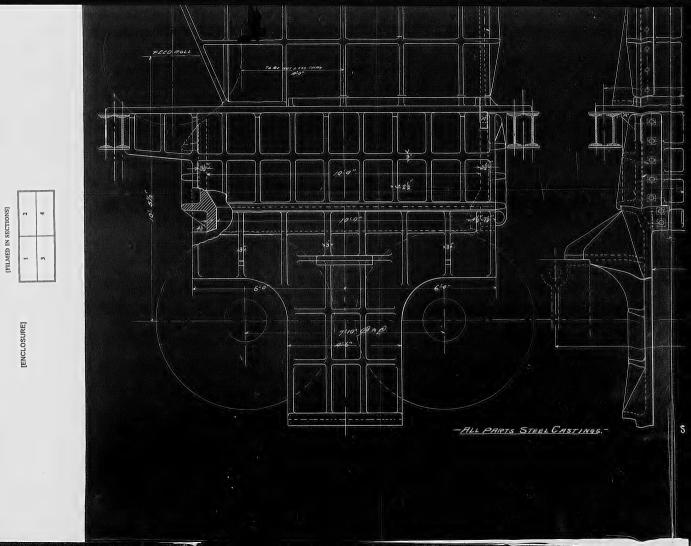
[ENCLOSURE]

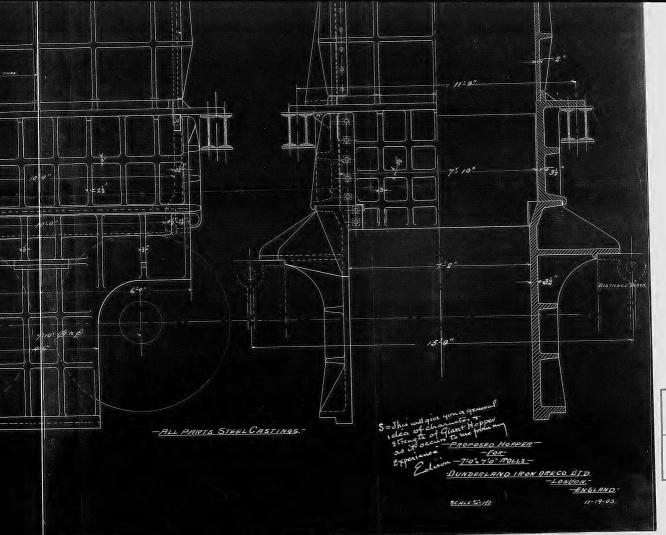




[FILMED IN SECTIONS]

[ENCLOSURE]





[ENCLOSURE]

3 1 2

Standard Construction Corporation Limited.

Ittpalan House, Arundel Greet.

ENGINEERING DEPARTMENT.

TELEGRAPHS: STANGOLLI, LONDON.

V

November 24, 1903.

THOMAS A. EDISON, Esq.

No: 41.

Dear Sir,

Your letter of the 16th inst., addressed to my Father, is duly to hand. I am forwarding a copy of same to him at Mo, and you will no doubt hear from him in reply in due course.

Yours t

Standard Softworton Corporation Limited

ÓBICCECGGGGGG

Isan you sketch of what I think is right way for Ratherford when givents I have made the little agitating Roll nonadjust-66 - leaving 24" clean which will be at when your opening in grante is 16" from bottom to Gottom, Tallowing only 16" pieces to go through. There will of slivers longer but you will not have many or they will do no harm you will notice I have mere and deanter of food 4011 to 7 foot 4 mg this will prevent a great transle ws had at Edward + which wa now have at Coment, to wit

7

the incoming ore hammers or pushes the ore so funch under carlain Cand tien that it is forced over colon fred tollis stopped of collen feeding there is an abnormal to was of lors forced over Each time they dump when not much ore in otrains all The rolls below & put a by wad and best This diang wice stop this - The was feed Roll can be Cast - 3 sections, Ishard be thick + 1166 Ed - The shafts are none too large = WE had shaft at Edward on & 4 to 1 to 1 6.7/8 shall of his got bent- LOE used removeably

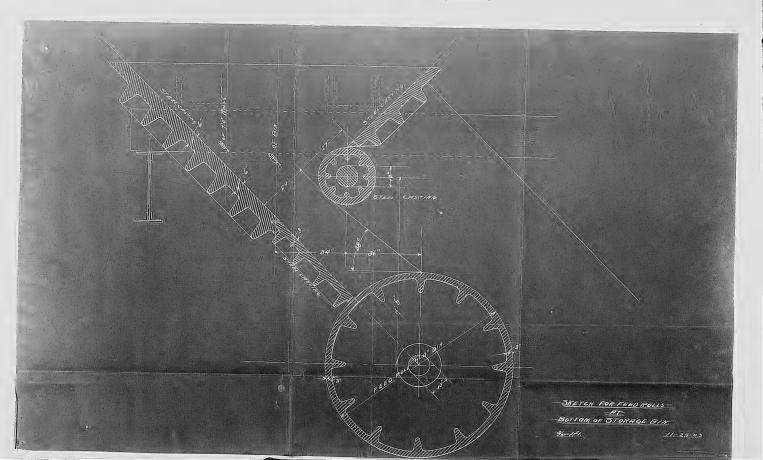
Connected plates, but fyou wake roll of Close grained now + 3 or 3 1 that it will last a long while plates are a nuismois -You will notice I have put where fore strikes a steel Carting heavy Arch 62d - Spru will wood it as men will of carry out walruchens about Keeping happen full-Look out nothing propects un 6 octom of hopper, a bolt head Donatimes dans a block very trivial things will do the Ston

wooden washer on end of bolts going through housings o grand Rollier Greater of it appleads Lyon KAUZ VZYY Little Cylinder there will 162

Durpkens -

We have not received fund drawings for 3 High rolls,

5 diam



Standard Construction Corporation Limited.

ALL LETTERS SHOULD BE ADDRESSED

Titzalan House, Arundel Street;

TELEGRAMS: STANCOLLI, LONDON.

London, w.c

No: 42.

THOMAS A. EDISON, Esq.

file -

Dear Sir,

We are duly in receipt of your favour of the 23rd ult., and are extremely obliged for the enclosed blue prints giving us your idea as to the construction of the hopper around the 7 ft. Rolls, and particulars of the delivery chute to conveyors. We will take these up at once, and revise our drawings in accordance with them.

Yours truly,

Standard Construction Corporation Limited,

presentation

Dunpkin - 27 - Da 2/03 . Hierd you to day blue Tourty 300 36 wal rall flexible (0,660er - This is a great Queros of ques no trouble repr 20 good for 20 to 30000 tos to quakky gut in when boom out = It is Oaft on warsunsen opening Taking aff Skocks a Pit

that to the may Ching you Can use to take shocks of of Communications of Motors driving rolls B-1225 + B 1234 are the flexibles use in com motors during Congression ( loom

Look out that Bergmon uses Daft Mica in his Communitations. Those sent from Germany for our Motors have hard white un of WE have a dreadful time Keeping Wachen framsparking -More than 12 percent of close Rade Mice time is lost, the Mica after running 36 hour stands up slightly of with Cuban Courses, one the

spark were then it gets so 6 ad know to short down to Orusepaper - Wakite hand Mica is of for whe brushes but not for Carbon orto no Longer used here

The idle bearing you cent is defective in respect to oil chain it is absolutely Essential that the chain should be zasily put in a court while running - you willhave to redesign it - There are other things also - I have it set up + am trying to quake it oil ste will let you know further about

The skip dump mator must

or compound wour

Standard Construction Corporation Limited.

ENGINEERING DEPARTMENT
TELEGRAPHS: STANGOLLI, LONGON.

Sitzalan House, Arundel Street; London; w.c.

No: 42

THOMAS A. EDISON, Esq.

Dear Sir,

I am duly in receipt of your letter No: 26, detack.

November 25th, and amobilized for the enclosed sketch of a feed arrangement our theffirst five foot rells. My Father should be back in London-towards the end of the present week, and we will take this up with a view to arranging our drawings accordingly immediately on his arrival.

I am under the impression that drawings of the grinding rolls were sent you some time ago, but will look into the matter, and if I find that this was not done, will forward you a set at once.

Yours truly,

Standard Construction Corporation Similed.

ENGINEERING DEPARTMENT.

TELEGRANS: STANCOLLI, LONDON.

Titzalan House, Arundel Street,

Jondon, W. December 14, 1903.

No: 43.

THOMAS A. EDISON, Esq.

Dear Sir,

I am duly in receipt of your letter No: 27, dated
December 2nd, with various blue prints of rope flexible couplings
enclosed, for which I am obliked.

My Father has been delayed in Berlin on his way back from Norway, and will not meach London before Wednesday, the loth. We will take the matters up which are referred to in your letter immediately on his arrival.

Yours truly,

Standard Construction Corporation Limited, Sitzalam House, Arundef Sheet;

No: 44. Mand 15, 19 London, W.C.

Documber 31, 1903. ENGINEERING DEPARTMENT. TELEGRAPS: STANCOLLI, LONDON Lower chal 9 go to florida about 25th but THOMAS A. EDISON, Esq. 68 busy from now on you Dear Sir. during my trip to Norway and were of were acknowledged by my son

Com over whicher as far as

The ere of the water ·warded. be sent on to you. last 36" to the conveys exactly like what I suggested which you at that time said would not I have before me now a copy of

now send, and which is really th

of conveyors, and I am certain will be satisfactory

I note what you say about dispensing with the wooden washer on the end of the bolts going through the housings on the

Giant Rolls. This we had alreadyy arranged to do for the reasons stated by you, as also on the lst 3 sets of 5 ft. Rolls.

I am mailing you a photograph of a set of Fine Grinding Rolls which we have just erected and which we shall shortly test for efficiency, power, etc. against a set of Rolls of exactly the same size and with the same kind of plates. I will let you know the result as some outsiders who are building Fine Grinding Rolls with corrugated plates claim they can get exactly the same results with the same size rolls, and that the Rolls cost originally much less and there is no trouble from breaking of the pressure ropes. In this connection would say that the putting in of the loose plate between the couplings does not allow us to get in an endless rope when the one in use breaks. We have also to arrange to get it over the sheave of the pulley attached to the air cylinder, and this little problem we are now working on.

I expect to be in New York about the first week in February and may probably bring with me the revised drawings of the chutes and hoppers for the crushing plant, and other drawings which I wish to discuss with you. You might kindly let me know when you intend to go to Florida so that I can time my visit accordingly.

Wishing you the compliments of the season, I am, Yours very truly,

Win Smithin

# EDISON ORE MILLING SYNDICATE, LTD., AND RELATED COMPANIES BOUND VOLUMES

These records cover the period 1900-1908. They consist of letterbooks, experimental notebooks, and other bound items relating primarily to the design and construction of the iron concentration plant in the Dunderland region of Norway. The two letterbooks contain outgoing correspondence by Edison and Herman E. Dick pertaining to the Dunderland project, storage batteries, and cement. Included are instructions from Edison to draftsman William Simpkin regarding the plant and machinery at Dunderland, as well as some comments concerning briquettes. A volume labeled "Experiments" was used primarily by an unidentified author for notes, drawings, calculations, and reports relating to experiments with ores. It also contains one page of notes and calculations by Edison pertaining to a sight-feed experiment. Another volume, used primarily by Simpkin, consists of cost estimates for construction and equipment at the Dunderland works. A third volume, used primarily by Edison, contains notes and drawings concerning the construction of the Dunderland works and operations at Edison's cement works in Stewartsville, New Jersey.

# Letterbook, LM-281

This letterbook covers the period September 1900-February 1903. Most of the correspondence is by Herman E. Dick; some letters are by Edison and others by John F. Randolph. Included are items relating to the organization, capitalization, and operations of the Edison Ore Milling Syndicate, Lid., and to the design and construction of its iron concentration plant in the Dunderland region of Norway. Also included are numerous letters perfaining to the development of Edison's storage battery and to Dick's role as foreign agent for the battery. In addition, there are items dealing with the organization of the Edison Portland Cement Co. and the construction of the cement works in Stewartsville, New Jersey.

#### Letterbook, LM-282

This book covers the period April 1902-January 1908, with most of the letters daling from 1902-1904. The letters consist primarily of instructions, sometimes accompanied by dreakings, from Edison to draftsman William Simpkin regarding the plant and machinery at Dunderland. Some of Edison's comments periata to the receipt of Dunderland Apricettes at West Canage and to plant operations at the Edison Portland Cement Co. in Stewartsville, New Jersey. There are also letters concerning drawings from the New Jersey and Pennsylvania Concentrating Works.

# Experiments (1899-1900), Cat. 999

This book covers the period November 1898-May 1900. It contains notes, drawings, calculations, and lest reports relating primarily to experiments conducted by James B. Ballantine on ores. Most of the entries are in the hand of an unidentified author, but there is one page of notes and eclusions by Edison pertaining to sight-feed experiments. Another note regarding the price and consumption of soda for briquetes bears the initials "T.A.E." Also included is a report price and consumption of soda for briquetes bears the initials "T.A.E." Also included is a report for the price and of Cement Arch Test No. 3," along with notes concerning a "hermatic mechine" for bunderfeet.

#### Cost Estimates (1901, 1907)

This book cover the periods November-December 1901 and February 1907. It was used by draftsman William Simpkin and unidentified authors. Most of the book consists of tissue copies of construction and equipment cost estimates for the Dunderland works (1901). A few pages, dating from 1907, relate to pattern drawings and the cost of installing giant rolls at the New Jersey and Pennsylvania Concentrating Works and the Carnegie Steet Co.

# Standard Construction Corporation, Ltd. Pocket Notebook (1902-1904)

This pocket notebook was used mainly by Edison, probably during the period 1902-1904. Included are notes and drawings pertaining to the design and construction of the iron concentration plant at Dunderland, Norway, and to operations at Edison's cement works in Stewartsville, NewJersey, Many of the pages contain references to Edison's correspondence with William Simplich, field regineer of the Standard Construction Corp., Ltd.

# Standard Construction Corporation, Ltd. Notebook (1903) [not selected]

This notebook was used during October 1903 by an unidentified author, possibly Emil Herter, for notes regarding blueprints for the Dunderland plant.

# Edison Ore Milling Syndicate, Ltd., and Related Companies Letterbook, LM-281

This letterbook covers the period September 1900-February 1903. Most of the correspondence is by Herman E. Dick; some letters are by Edison and others by John F. Randolph. Included are items relating to the organization, capitalization, and operations of the Edison Ore Milling Syndicate, Ltd., and to the design and construction of its iron concentration plant in the Dunderland region of Norway, Also included are numerous letters pertaining to the development of Edison's storage battery and to Dick's role as foreign agent for the battery. In addition, there are items dealing with the organization of the Edison Portland Cement Co. and the construction of the cement works in Stewartsville, New Jersey.

The front cover is labeled "Personal Letter Book of H. E. Dick." The book contains 500 numbered pages and an index; it has been used to page 355. Pages 91-92 have been removed from the book. Approximately 40 percent of the documents have been selected. The unselected letters pertain to ore analyses, inquiries about Edison's storage battery, and Dick's personal business and family.

Sept. 25, 1900.

Mr. J. Hall Jr., Secy.

Edison Ore Milling Syndicate Ltd.,

7 Amberley House,

never suggested such an amount.

Norfolk Street,

London W. C., England.

Dear Sir:

I have just cabled you as follows:

"Obsession, London.

We are astounded at allotment. I consented increase fifty and issue of twenty only. Dick"

Mr. Edison's allotment letter was handed him after I game over this morning, and we at once saw that instead of issuing \$\frac{20,000(\text{pounds})\text{of new stock, you have alloted the whole increase.}}\$

What reason do you offer for this? Mesers. Lawrence or Wallace

You first talked of issuing debentures to carry on our prospecting in Norway and I said we would take our proportion.

Mr. Wallace afterward said the Syndicate at the present time did not have proper property upon which to make such an issue, and suggested increasing our Capital Stock.

An estimate was then made up of what monies the Syndicate would require to complete its work of prospecting in Norway, and #12,000 (pounds) was found to be an outside figure.

#2 J. H. Jr.

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dO!

Shortly before I left London for Paris, the Directors of the Syndicate held a meeting lasting several hours, and it was agreed to submit a resolution to the shareholders for an increase of the Capital to 150,000 pounds and of this 50,000 (pounds, 20,000 (pounds was to be alloted to the shareholders of record. No other figures or amounts were mentioned. All agreed that 20,000 (pounds was more that could be used but we wanted to be on the safe side. The reason the increase was made 50,000 pounds instead of 20,000 (pounds was that Mr. Lawrence said that at some future time we might want to make a further issue, and we did not want to go through this matter of increase again.

We did not exploit this business abroad to furnish the patents, experience gained by excessive expenditures in experimenting, and a great proportion of the Capital also.

During the interval between the meeting of Directors above referred to, and the receipt of Allotment letter today, no one has suggested to Mr. Edison or myself that any change was contemplated in what was agreed upon that day. Capt. Pollen did not mention it while here. Concluding I will say that there is no demand upon the Syndicate for any such sum of money.

Truly yours,

1.42.0

Sept. 25, 1900.

Messrs. Maguire & Baucus,

5 Warwick Court,

High Holborn,

London, W. C., England.

Dear Sirs:

Mr. Edison has handed me your letters of July 27th, Aug. 2nd, Aug. 22nd and Aug. 24th. You are now aware of the cause of delay in Custom House of pug.

Mr. Edison has been and is now working on pug process, and says that the character of this pug is entirely different from the first lot. The grain is a thousand times finer, as fine as butter and the most powerful microscope does not resolve it into anything. It is also very lean, some carrying no gold whatever and much of it will not go over fifty cents per ton. All of these experiemnts take time, and a small model plant will shortly have to be designed and of course this will envolve considerable expense.

Mr. Edison says that if you run down the report that another process is out which is a success on the pug, and find that it is true, he will suspend this work and further says that whoever has solved the problem is justly entitled to all he can make out of it.

The information concerning the Sulphides is too general.

#2 H. & B.

A process that would work one deposit successfully might fail on another. The plan to work on in this line is to take a large known deposit, get average samples and fit the process to it. Give price of coal, labor and specific local information. Every detail in a process must be carefully worked out and all this takes time and money.

You see when wild statements are made how it workes out. You brought that sample of pug over and said it was a rich sample but there were millions of tons that would average \$8.00 per ton. When a quantity is received for experimental purposes, Mr. Edison finds it entirely different from what was first shown him. The result is that all the work he has done with the first samples is useless unless you can find a large body of similar pug. He is obliged to begin all over egaln on the process, and the problem now is a hundred times more perplexing, although he believes he can overcome these new difficulties even now, but the pug must go more than fifty cents a ton.

Trusting I have ourselves clear on all points, I am,
Yours truly,

HE Design

Oct. 8, 1900.

J. Hall Jr., Esq.,

Secretary Edison Ore Hilling Syndicate, Ltd.,
7 Amberley House, Norfolk Street,
London, W. C., England.

Dear Sir:

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2.57

I have just returned this morning from a trip in the mountains where I could not be reached by Mr. Edison, and find your cable of Oct. 1st. I cabled you on Sept. 24th upon receipt of your letter of allotment and waited one week for a reply, then was chiled to start on trip. I also wrote you the same day.

There is considerable humor in the way you request Mr.

Edison and myself to put up \$110,000 as though it were an invitation
to dinner, and I will say that the whole matter of this issue
seems to me most extraordinary after settling on an issue of 20,000 when I saw you last. You have raised it to 50,000 without a
suggestion or an inquiry as to how we stood regarding it.

We will do just what I agreed when I saw you and no more, that is to take our proportion of an issue of 20,000.

Very truly yours,

3 dien

Oct. 8, 1900.

James Dixon, Esq.,

81 Gracechurch Street,

London, E. C., England.

Dear Sir:

In the printed report of the Extraordinary General Meeting of the Edison Ore Milling Syndicate, Ltd., on the 7th of Sept, page 2c, I note a statement made by you which reflects upon my associate Herman Ernest Dick, as well as myself. You say that one of my men at a Club in Chicago introduced you to Mr. H. R. Dick who said "that he alone had to do with Mr. Edison's affairs." You also said that he seemed to be a most mysterious person. In the first place I will say that I have no man in Chicago. My Dick is a resident of Chicago although he spends but a small portion of his time there and was in London at the time of your visit.

Your Mr. H. R. Dick I never heard of, never had any business relations with him, and he is in no way connected with me.

I would consider it a favor if you would advise me the name of the gentlemen whom you called "Edison's man," who made you aquainted with this H. R. Dick.

Referring to your statement that you could not see me while in America, I will say that there are on file two letters from you only.

In the one dated Tuesday May 1st enclosing Dick's letter of

#2 J. D.

Dear

e⁄ no

20,

Her

at "th sat pla den tir introduction, you say that you are leaving the next day for the South to be absent for four weeks, giving your address in Baltimore until the following Friday. I was away from Orange all that week returning Saturday Evening, consequently could not write you in time.

The other letter was recoived Tuesday June 12th and in it you say you regret that you will be unable to call as you are sailing the next day on the "Oceanic"

I have met several members of the Syndicate and have always been glad to talk over our affairs and should have been pleased to have seen you. One thing more; I can find no one who ever received a telephone message from you.

Trusting you will see the justice of my making this statement, both on Dick's account and on my own, I am,
Yours very truly,

19

October 11th, 1900.

J. Hell, Jr., Secretary,

Edison Ore Milling Syndicate,

Ambley House,

Norfolk Street, Strand,

London, England.

Dear Sirt-

i de

5.3:

The ore shipment made by Lehmann is in the New York Custom House and has been there for three weeks. It will probably be two weeks longer before we can get it out. All of it is assayed and tested by Government Chemists, ostansibly to see that no fraud is practiced upon the Government, but really to furnish good postitions for party workers.

Rdison must construct a unit of that type of separation down a swould be used in the Norregian Mill and actually concentrate the ore sent. As this will involve considerable expense, and be distance you to instruct him at once to do this work.

I nowice in the reading of the report of the extraordinary countries recting, that few, if any, of the members of the Syndiaute have the remotest idea of this problem. For instance-Mr. Dickeou was surprised to hear that they were not using Edison briquettes in Chicago, a thousand miles away from Edison's Mill; within a few inundred miles of the great Masaba deposits and practically water navigation all the way to the Mines. Then he was surprised that he could not find them in use in Pittsburgh, where practically the same

J. Hall, Jr. #2.

conditions adint. The Chairman gave a partial explanation of the problem, but it did not go quite far enough.

There was a great deal made at the meeting of what the brighten cost Relians per ten and what he gets for them. What it costs to produce briquettes of deg from per ten, from ore containing 16 to 18%, is a vital one to the Syndicate. The price he sells them for cuts no figure whatever. There is a fixed price for Bessemer ore at every Port in England; the same as the price of wheat, cotton or any other commedity; so all that the Syndicate is interested in knowing, is what the briquettes cost. What Edison makes or losses here in a Country that is exporting hundreds and thousands of tons of Pig from, steel, billets, ore and everything its later than the sum of the country have your market price, which is comsiderable higher than it is in this country and you know what Redison of common compaction for a ten prevailing rates for mages; then the problems broads an easy one to figure as to profite.

The Terms industry to this Country is in a most demoralized offers. Puring the past Real's worths when the price of aron was sand artifically bods, every Furnous throughout the Rast-many of them sot baving run for ten years, was put in blast and huge quantities of one contracted for on the supposition that the price of from was likely to remain high for several years. There is no

J. Hell Jr. #3.

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market for either iron or steel at the present time; practically all the Fourtees are closed and it is not a question of price, quality or anything class. The Furnaces simply cannot take the ore.

Edison has on hand to-day about 10,000 tons of briquettes and concentrates and is shipping them out at the rate of about 300 tons per day. He has taken advantage of this hull in the business to put in thirty-four Electric Motors in his plant.

This condition of affairs will probably not exist again for fifty years, but it is the condition at the present time. Quantity threatens to make war upon the rest of the iron men, and I believe he will do it. It looks that way. He proposes to cut the price of steel rails to \$23.00 per ton and everything else in proportion.

If is Kr. Edison's opinion that the ore situation will be so improved that he can start up on Jamery first and run on contimously. In each, he has been assured of this by Pilling & Crane, his to Probate.

Yours very tradity,

FF E Dick

Hev. 2, 1900.

Messrs. Maguire & Baucus,

5 Warwick Court, High Holborn, London, W. C., England.

Dear Sire:

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Dear

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Yours of Oct. 10th has reached me here. I have been East for several days with my family, but did not come over to the Laboratory until this morning. The letter I wrote you on Sept. 28th was sent after a long talk with Mr. Edison and after he had shown me many samples of the pug which he had received from you, and he seem the letter after it was written. He has since that time found a new feature in the pug which he could not see in the samples first submitted by Mr. Roudebush, and that is this; The greater portion of the ore has nothing whatever in it, but when it is broken there appears to be, however, small spots widely distributed through the pug where the gold is segregated and it was these pieces of rich ore that Mr. Roudebush handed him.

He must over the greater part of the shipment, breaking up the pug indiscriminately without finding an atom of gold, and it appears that full of it must be treated to recover the gold in that the richer parts on he first thought. On Honday he commences on another experiment with the pug and I hope to be able to give you encouraging reports soon.

Very truly yours.

IFE Dick

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Nov. 2, 1900.

James Dixon, Esq.,

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t'n

81 Gracechurch Street,

London, E. C., England.

My Dear Dixon:

Mr. Edison has handed me your letter of the 22nd of Oct. and I note what you say. I am obliged for the way in which you mention me, and can readily see how the reporter made this error, as you yourself say you do not understand the disconnected way in which it was printed.

I presume the gentlemen you met in Chiongo was Samuel Insull who I have known for many years. Mr. Edison does not want you to think that he was finding any fault with you, but says he wrote the letter simply to straigthen out any misunderstanding that might arise from the reading of the report.

Very truly yours,

November 8th, 1900

23 23 169

Mr. J. Hall, Jr., Secretary, Edison Ore Milling Syndicate,

Amberley House,

Norfolk Street, Strand, London, W. C.

near Sir:--

Mr. Edison has received your cable and has already started at work. After a few preliminary general experiments with the apparatus he has previously constructed, he will design and build a bank of ten magnets, which will be a perfect unit of the type as would be constructed for the Mill in Norway; then this bank of magnets can be shipped to London and there demonstrate to our friends at Newcastle, who toubt that the hemetite can be separated in a commercial way.

In the meantime, what do you propose doing with Dr. Lehmann?
If he can be spared it seems to me it would be just the thing to send
him over here that Mr. Edison can refer to him regarding the deposit
in many ways. It was our first intention to complete this bank
of magnets and then have Capt. Pollen come over, so that he might
see for himself just how it was done, but this morning Mr. Edison

November 8th, 19

#2.

suggested that we ship this experimental unit of magnets over to you, together with the pulverized ore etc and I consider it a very good suggestion. He will keep right at it until the work is completed, as the time is now close at hand when something must be done and the chief object of this experiment is to obtain data for the prospectus, as well as make an actual demonstration of the separation.

We will send very shortly, a draft for part of the amount we agreed to take and this will be followed by other drafts at short intervals, until we have paid up in full the amount of the new issue that I agreed we would take when last in London.

Yours respectfully,



November 16,1900.

Mr. F. H. Pollen, Manager,

Edison Ore Milling Syndicate,

Amberley House, Norfolk Street,

London, W. C.

Dear Sir:-

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TOW

I have the Secretary's letter of October 30th to Chicago; your letter of November 2nd. and Mr. Edison has just handed me your letter to Mr. Mallory of the 5th of November, asking me to make a general supply to same, and upon Mr. Mallory's return in about two weeks, every item will be taken up and anavered fully by him.

There is one building here devoted to the experiments on the Norwegian ore, and this work is being rushed forward without delay. I doubt if it would be possible to have Mr. Edison go over between now and April first, although he has frequently expressed his desire to see this deposit before the final location of the Mill was selected.

Mr. Edison says, he believes from all the data and reports which he has at hand, that the supply of ore in this one deposit would be sufficient to satisfy the entire English market for foreign ores for thirty years, at its present rate of consumption.

Of course, I realize it would be a happy thing for the

Mr. F. H. Pollen #2.

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Syndicate, if Mr. Edison and myself would contribute \$100,000 just now, but as you know, this was not the spirit of the contract when the Syndicate was formed. However, we will contribute the amount previously agreed.

Mr. Edison is desirous of having me remain here during the experiment with the ore, so that I will have a clear understanding of the whole matter; and as there is little to be done just now, until we have our reports, etc., there would be nothing gained by my leaving at the present time.

There has been some delay which was not anticipated when the Syndioute was formed, but no more than is usual with other enterprises of such large possibilities. I realize that you must depend upon us for sound statements that will speak for themselves, and be of cuch a convincing character as would interest investors. We are fortunate to have at Newcastle, associates who realize the possibilities of this great deposit, and we will undertake to furnish the convecting links which will be convincing beyond a real-monthly could.

I note what you say about the Norwegian patents and the great stress laid upon this one feature of the promotion. If the

Mr. F. H. Pollen #3.

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deposit together with the process is secured, with the experience gained from this side, the business would be established of as firm a foundation as any other business existing to-day.

I have had a long consultation with Mr. Eddson regarding the general lines, on which in our opinion a Company should be brought out. In the first place, the Company should be large to ultimately handle this business; that is, I mean with capital enough subscribed to build the Mill, Railroad, etc., etc., but for the present, only enough to be called up to secure the necessary money to complete the purchase of the property.

I notice that you speak about the plans for a Mill, and want to advise you what must be necessary to complete perfect plans. In the first place, a wooden model must be constructed here, perfect in every detail and similar to the one made for the Edison Portland Coment Company. This would cost about \$10,000. Then, detailed drawings must be made (this work would be done here in connection with Engineers that would be sent over by you) and this work would take at least eight or nine months and cost \$30,000 or \$35,000.

You must remember that the Mill at Edison is an experimental plant only; that it is like the first machine brought out by an Inventor in any new line; that it has been evolved from Mr. F. H. Pollet #4.

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rico.

nothing and changed repeatedly. Even now, there is being installed at Edison, thirty-four electric Motors to take the place of belts, and all the frame work is being replaced by steel and solid masonry; and this plant was made simply to demonstrate what could be done. Outside of this plant at Edison, the only new plant is the New Jersey Zinc Company, which is giving the very best of stisfaction. Figures will be furnished by Mr. Mallory on his return, which would be convincing to anyone accustomed to assuming ordinary business risks.

Mr. Edison has never considered this plant any more than an experimental Mill, being the first of many Mills to be creeted for working the low grade rock of New Jersey, of which there are ever sixty-five square miles; neither have I ever made a statement which still be construed into meaning that this was a going business, mutting large sums of money. It is the men who get into a business me its incipiency, who get large returns. I believe that with the reports, statements, etc., the twoffings of this plant at Edison, which I will be able to bring over, will satisfy the men of large affairs, who are the type of men we want in this enterprise.

Mr. F. H. Polien #5.

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Every condition at Dunderland is more favorable than at Edison, and the deposit is more than twice as rich, so that only one half of the material will have to be handled, with cheaper labor, etc. and the ultimate utilization of water power as compared with the plant at Edison. Rest assured, that we realize the magnitude of this proposition, and will furnish you what is required from this side.

We are glad to hear from you frequently and hope you will suggest anything that you may consider would be of assistance.

Yours very truly,

Reventer 15,1500.

Mr. Melville E. Stone, General Manager, Associated Press,

Chicago, Ills.

Dear Sir:-

Mr. F

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Enclosed I hand you a clipping from the New York "Journal", and beg to say that this man, Gourand, is in no was connected with me, I having dismissed him for good reasons many years ago. He has a genius for getting himself mentioned in the Press, and especially through your different foreign correspondents.

These publications are annoying to me and I trust you will use your best endeavor to have any future items of this kind sumpressed.

My foreign representative for sometime past, has been Mr. Herman E. Dick, of your City.

Yours many entity

Enclosure.



January 7,1901.

The Battery has one third the weight of the present battery used in Columbia Automobiles.

The cost per Automobile will be less than those now used.

The Battery is based on an entirely new reaction in Chemistry and contains no lead.

The Battery is permanent. There is no deterioration.

It does not require any attention after being put in use, and nothing but water needs to be added from time.

Required- A cash payment,

331/3% of the Common Stock.

I Reserve the right to manufacture on a 20 per cent basis over labor, materials and general factory expense. At expiration of one year and having ascortained costs, I am to receive 1/2 the saving that can be made above this, which is to be added to the 20%.

Parties taking over the Battery do so under a license, the title for litigating purposes remains with myself.

Battery to be sold to all Comers at a rate not exceeding 50 per cent above cost to Company. I on the other hand to include all improvements on Automobile batteries for 5 years. To invest sufficient money in factories to supply the market, up to 10,000 automobiles the first year and any amount the second year.

January, 16th, 1991.

Walter H. Wilson, Esq.,

Pookerv.

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i realize, Vilenti-

Do my return, I find matters have changed considerably. Lest week a deputation of Philadelphia people who organized "50 raison Fortland Cement Company, casa over and epent a day, and made our. Edison outright a very liberal proposition to take up the eventuation of the stoware battery. I talked over with him my iduate the passing from teacher of the cepital stock of the proposed assumage Tattery Company in the Deat, and told him the mature of my consensation with some and Mr. Mitchell. He did not think it was necessarily to place all of this in the West, but said that he would be glad to consider when the time came for bringing out the matter.

The Philadelphia people who were have, were very like al with Mr. Paison on e-est. Plotation of the Edison Portland Company.

The demant Company's capital is cloven million, of chick two million is preferred and nine million is common. The shock of the size faithing common was given to Mr. Rdison outright, in payment of his patents, experience, etc. One million preferred has been sold and the money placed in the Treasury, and out of Mr. Mr. W. H. Wilson #2.

Edison's nine million, he gave one million of the Common to the investors and purchasers of the million of preferred.

There is now in the Treasury one million preferred and one million of Common, which Mr. Edison gave up from his portion. This left kr. Edison with seven million Common stock, with one million sach of Common and preferred, stored in the Treasury. But no those seven millions kr. Edison received, he paid commissions, etc. this became belongs to him absolutely.

his idea of a Company is comewhat on the lines we talkwil, or regarding the amount of capital stock. Everything is progressing splendfally, but it is doubtful that Mr. Edison will want to do anything until his return from Florida, when all tests, etc. will have been completed. He is pratty well tired out, having worked until midnight every night for weeks, and wants to get away for three or four weeks about the middle of Yebruary. When I return to Chicago, I will show you some memorandums Mr. Edison has given me.

With kindest wishes, I am, Sincerely yours,

Rich

February 4th,1901.

Herman E. Dick, Esq.,

Dear Sir:-

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Appr

Referring to Clause fifth in the Storage Battery Contract, executed on February first, 1901, weelf being the party of the first part and you the party of the second part, it is my understanding that the said fifth clause in said contract obligates me to assign said patents and applications for said storage battery patents to the proposed Company for all time, and in addition to such assignment I propose to give said Company without charge all my improvements thereon for a period of five years.

Very truly yours,

M. a. Edwar.

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Feb. 6, 1901.

## My Dear Mr. Wilson:

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D S

Your letter of Jan. 12th to me care Waldorf - Astoria,
New York was held by them for almost three weeks, and them forwarded
to my Chicago address. From there it was again sent on to New York
to me at the Reform Club and just reached me. Mr. Edison is strongly
opposed to forming a large company when he commences the manufacture
of his battery. He says that might come later when he has known
results, and when he can show what he has done.

He has notified the Electric Vehicle Company that he has decided to keep the battery, therefore he could not give them an opportunity to investigate it. He proposes to begin the manufacture of the battery about June 1st. He has decided on the above mentioned lines, according to whith e says is in his judgement the best plan for him to adopt. He considers my interest in the foreign patents of such great value, that it is not necessary for him to consider me in the American end of the business.

I have been expecting you would be dorgate New York before this. I have to be here at least another week, but am spending most of my time in New York. Capt. Pollen Manager of our London Syndicate is here and my time has lately been occupied with his business. Shall soon have to go abroad again, and I dislike to undertake the trip at this time of the year.

> With best wishes to you and yours, I am, Very truly yours,

HE Dien

E Windoor Richards Eg

Holland How : Now York City

Mr Dick who has just returned tollo me that you out to come to the laboratory I shall be delighted to see you Monday not, you can tring any friends with you, and I shall ack you to do not the form of wining me solution, of Monday with be a conservent day for you to come. Mr. Dick will call at your holds about rime adock for your holds about



Capt. F. H. Pollen, Manager,

Edison Ore Milling Syndicate,

4 Amberley House, Norfolk Street, Strand, London, W. C.

Dear Sir:-

I cabled on Monday as follows: "Important news; don't "exploit now Company or talk until letter received. Cable order "Edison make tandem marmets."

Whis decision was arrived at after a long consultation with Windson Richards, Arthur Koene, Mr. Edison and myself, and it was only after I personally guaranteed that nothing would be said outside of the Sindicate orfice, Mr. Lawrence and Mr. Wallace, that I was allowed to go as far into the matter as I am about to do.

In the first place, this is a great breiness and we cannot plunge headleng into the matter of finding the money for this Company sithent being send with the necessary weapons. If we do, we run great danger of disaster, and it would be a most difficult matter to pull the solution together if this did happen.

What we need is an explicit detailed report from Windsor Richards and this sannot be obtained until Mr. Edison completes his bank of magnets, which will take between five and six weeks to complete. He does not want to go ahead on this, (although he has mede a match of what it shall be) until he gets your authority by

Capt. F. H. Pollen #2.

Capt.

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comp nada cable, so that at no time in the future can there be any misunderstanding about the order. He estimates that this bank will cost about \$5,000.00, as per his previous letter.

Mr. Richards and Mr. Keene left on Monday evening in Mr. Schwab's private car for Pittsburgh, where they will remain for about ten days and then go on to the Birmingham district in Alabama, returning to New York in about two or three weeks. On their return, this business matter will be taken up seriously and I believe the financial arrangements can be practically completed subject to the approval of the Syndicate. Mr. Keene pledged himself to us that every penny of money wanted for this enterprise can be easily and cheeply Yound in London. What is wanted, is a great Iron Master for Chairman of the Company and I have been assured that we will have no difficulty in having this arranged in a satisfactory manner. Edison's idea and mine also, is to get a great Iron Master for Chairmen, having a strong board to co-operate with him, and then the Syndicate members doing everything they can to assist this board, they should have a complete separate organization which shall be responsible to the subscribers of the new Company.

The Syndicate being vendors, cannot hope to be in absolute control of the Dunderland property, nor is it reasonable to expect

Capt. F. H. Pollen #3.

it. Then again, it will only be a very short time until we are ready to exploit our Coment rights and we must keep ourselves as free as possible to devote our time and energy to this branch, and then there will be other iron properties to handle and exploit.

The Crushing plant section at the Cement Works will be ready to make a test run in seven or eight weeks, in fact, the machinery is being erected in many parts of this plant and covered with tarpaulins on account of the Iron men being so late in delivering the structural iron for the buildings, which cannot be completed before December. This shortage in iron supply will cause a serious delay in the starting of the Coment Works.

Hr. Edison believes the most important thing to do now is to send a competent Hydraulic Engineer to examine the water power and estimate the cost of improving it so that at least 7,000 H.P. could be obtained for the first Mill; then later on more improvements might be made to increase the power, but it is going to be a very important question as to whether this first Mill shall be operated by steam or water power, as it would take at least a year after the order was placed to get our Allis Engines. He may the Hydraulic Engineer to send in Turettint, of Geneva, Switzerland. He is the Engineer who designed the Niegara water power and Edison knows him very well and says he is not an expensive man. We also want in addition on appended report of the ostimated cost for the complete utilization on the whole amount of power,

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Capt. F. H. Pollen #4.

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Kngl

Engl

very tion zati Mr. Edison also wants your authority to put one Draftsman on the working and laying out a rough general outline of the at Mine and sea.

Mills He has already made pencil sketches of what this should be. Then, after Laymam had given him a contour survey of the land upon which the Mill would be erected, he will start the construction of a wooden model, always keeping up with the plans, and by the time the railroad was completed, everything would be well in hand for the erection of the Works.

Mr. Edison has gone into details with Windsor Richards, Arthur Keene and also with Mr. Alneworth and a-consort delegation who were here yesterday, and has amaned them by stating that based on his experience at Edison, he-would be able to put this ore f.o.b. vossels for \$1.50. This has simply amaned these people and I can see that they are greatly interested. After Mr. Richards and Mr. Krene's return, I am going to take them in hand; go up to the New Jersey Zine Works, to Edison, N.J. and over to Lebanon, Fa., where they are cruening 1,000 tons of from ore with one of Mr. Edison's Crueners, and shall also spend a couple of days with them at Stewartsville. This will clinch the whole matter and in the meantime, we will rush the construction of that bank of magnets and put it in operation here and then have it boxed up and shipped to London, where we will make an exhibit if necessary, and further, should it

Capt. F. H. Pollen #5.

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be necessary, Mr. Edison and I will come over for one week.

The point I have tried to make in this letter, is for the present we have nothing to talk about and therefore, should have nothing to say until the time for action comes. Mr. Keene and Mr. Richards both say that Prof. Galloway is a coal man and any report from him concerning iron properties would be of no effect among iron men; that he is a very good coal expert and a very nice gentleman, but reporting on iron ores was foreign to his business, and if this is no, it would simply be a waste of money to send him to Norway.

Yours very truly,

Oche " "

April 18th,1901.

Mr. Arthur H. Pollen.

188 Fleet Street,

London, England.

My dear Arthur:-

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Lister:

I have written a very important letter to the Syndicate to-day, which I wish you would see, as Mr. Lawrence must be in the heat of his campaign. I think you will agree with us here that it is the wisest thing to do for the present. This matter is a huse siece of work and it wants to be done right.

I enclose report of The General Electric Company which might interest your Father-in-law, as we had some talk regarding this while I was there. We have been entertaining all the big iron men here this week and I am leaving for home to-morrow.

Trusting that Lawrence will be suggestful and with best wishes to you and yours, I am,

Sincerely yours,

The Dick

(Englosure)

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May 7th, 1901.

My dear Lawrence:-

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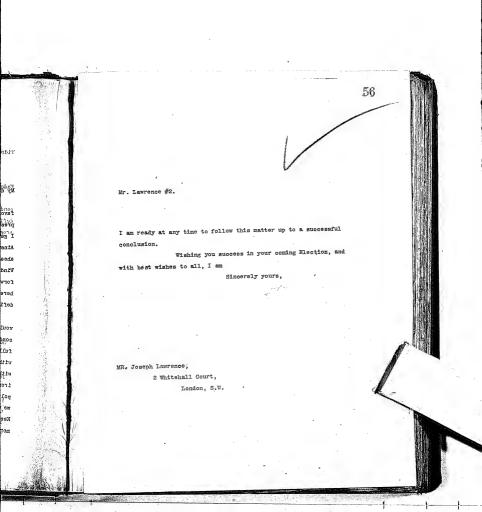
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pend defi defi pro I have just returned from Chicago and find your favor of the 13th ult., also copy of Sir David Dale's letter. I presume you have seen the letter written to the Syndicate, in Adden I gave the result of the visits of Windsor Richards, Arthur Keeme, Ainsworth, etc. I do not believe that we are quite ready to go ahead with this matter, certainly not until we get the reports of Windsor Richards and have completed the bank of magnets which will be forwarded to London. I am expecting Mr. Keene and Mr. Richards here shortly, and when I see them, I shall pin them down to something definite.

Mr. Keene assured Mr. Edison and myself that there would be no diff'outly whatever in finding this money under certain conditions and he impresses one with the fact that he understands fully all that he is talking about. Mr. Eddson was greatly taken with Mr. Keene end Mr. Etcherda and believes that we should work with thom as much as possible without allegiating any of the other iron men we may desire to bring in, and believe it would be good policy to advise Sir David that when we are prepared to talk business, we would be glad to consider him, without letting him know that Keene and Richards are intensely interested, as we can see there is more or less jealousy between these two groups of Iron Masters.



Hay 7th, 1901.

Capt. Pollen, Manager,

Edison Ore Milling Syndicate,

Amberley House, Norfolk Street, Strand, London, W. C.

Dear Sir:-

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We have yours of April 23rd and are pleased to see that everything has been closed up properly. I just returned from Chicago yesterday and learn that the steel castings for the magnets are a little slow in arriving. We will have one here to-merrow and the balance will follow by express. It is rather a difficult matter to get these castings just right and there is only one concern that Mr. Edison was willing to employ and they are rushing this wark.

I expect Windsor Richards and Mr. Keene on here very soon.
We are glad to note that Dr. Lehmann is on the way; he will be instructed as to the operation of this bank of magnets and will in all
probability take the Epparatus back to London with him.

Rest assured that we will hurry matters forward as fast as possible.

Sincerely yours,

May 10th, 1901.

Lord Kelvin,

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ref

The University,

Glascow, Scotland.

My dear Lord Kelvin:-

I am in receipt of an invitation from J. D. Cormack, Secretary, to attend the International Engineers Congress early in September. I notice that you are commetted with the Association, and if time permitted, I would be glad to accept, but I shall be busier than ever this year, therefore, shall be obliged to decline.

I trust that you are in good health and hoping to

have the pleasure of seeing you on this side, I am

- Thomas a Edison

Sincerely yours, -

May 10th, 1901.

68

The Edison Ore Milling Syndicate,

4 Amberley House, Norfolk Street, Strand,

London, W. C.

Dear Sirs:-

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We are sending by United States Express 32 briquettes made from the Dunderland ore, 16 magnetite and 16 hematite. These are all right for phosphorus and you had better destroy the old hriquettes you have.

Dr. Lehmann is here and hard at work.

Truly yours,

May 16th, 1901.

My dear Mr. Wallace; -

Er. Dick handed me your book when he returned from London and I have neglected acknowledging its receipt. I have gone into it carefully and congratulate you on the good work you have done.

With best wishes, I am,

Sincerely yours,

Roger Wallace . M.C.,

3 Haro, . . Building,

Thomas a Edwar

The Temple, London.

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Dear

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71 May 14th,1901. Capt. F. H. Pollen, Manager, Edison Ore Milling Syndicate, Amberley House, Norfolk Street, Strand, London, W.C.

Dear Sir:-

Dear

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Please write Mr. Edison authorizing him to keep two Draftsmen for the present on the preliminary plans for Dunderland. Dr. Lehmann will explain when he returns. He will also give you good reasons for what seems to be a delay in getting out the bank of magnets.

hung open

A Somagor,

May 24th, 1901.

Capt. F. H. Pollen, Manager,

Edison Ore Milling Syndicate, Ltd.,

4 Amberley House, Horfolk Street, Strand,
London, W. C.

Dear Sir:-

I enclose letter from Mr. Lockie, of Newcastle, and also a carron copy of my reply.

Replying to Mr. Hall's letters of May 11th to Mr. Edison and syself, and also quoting paper read by Mr. Grearson, will call your attention to a few paragraphs on page six, which will stem the Author among practical Iron and Steel men, as totally ignorant of the subject he endeavors to exploit. He states that Mr. Mdinon's briquettes are porus, which unfits them for use in the Elast Furnace. If they were not porus, they could not be used and it has cost Mr. Edison a great many thousand dollars to learn how to make them popus. Any iron master can give you the same reply. He also passes by lightly necessary machinery, etc. for cruahing. If he knows where this can be procured, he can have some very strong firms give him a good retaining fee. It looks like an advertisement to me for Mr. Strong and him briquettes.

I enclose a report made Mr. Edison by the proprietors of the Flast Furnace where the briquettes were used, which defines this question.

Capt. F. H. P. #2.

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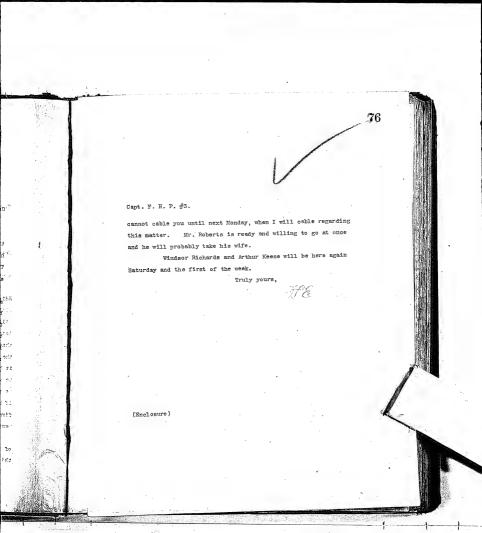
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The first magnet made from the steel casting, instead of the soft iron core, more than justifies Hr. Rdison's expectation, having a "pull" from 25 to 30% greater than his previous magnets. This will allow him to use less magnets than he originally intended and the work will be pushed forward as repidly as it is possible.

Dr. Lehmann will tell you of the talk we had concerning an Engineer to make the survey in Norway. We do not believe the best results can be obtained by using an English Railway Engineer, for the reason that road beds are built so expensively in England, they do not have the training that Engineers do in this Country, I went to the New York Central Railway to learn who built their road through the Adirondack Mountains, as this is about the character of work to be done in Norway. The President and one of the Directors, who is one of the Vanderbilts, sent out Mr. H. Roberts, who they said was the best Engineer for that class of work in America; that he had given them perfect satisfaction and could be depended upon in every way. Hr. Edison went into this matter very carefully with him and he offered to go and survey that road, remaining three months, for Five Hundred (\$500.) Dollars per month and expenses, and I consider it very cheap. As you are in ignorance of what was decided upon when Dr. Lehmann was here, I



May 24th,1901.

Messrs. Mac Rae & Sinclair,

St. Johns,

New Brunswick.

Dear Sirs:-

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ed

Replying to yours of April 30th, which has been referred to me by Mr. Edison, I beg to say that the situation as you describe it is very attractive. The new Edison battery will make the enterprise commercially profitable, as it will receive its charge in a short space of time and there is absolutely no deterioration. Mr. Edison is much interested in its projected enterprise, but it would be impossible for him to give any personal attention to the project and he could not become a shareholder for the reason that he never goes into any outside enterprise.

He will be pleased at any time to meet you here and talk the matter over with you, although it will be sometime late in the Autumn before any batteries can be delivered, on account of the necessity of completing the machinery for their manufacture.

Truly yours,

Liele



May 24, 1901.

Sachsiche Bankgesellshaft, Quellmalz & Co., Dresden,

Germany.

Dear Sirs:

a the 1

Upon request of Mr. H. E. Reddlien, I answer his letter of the 11th of May and address you.

At the present time we are not ready to exploit the Foreign business. The works are being completed and the automatic and other machines are being constructed to manufacture the battery commercially. I can give you, however, the information you ask for. The new battery will weigh about 54 pounds per horse power-hour and the measurements will be 11 in. high and 80 square inches surface measurement per H. P. On account of it being able to be rapidly discharged as well as charged, almost any speed can be obtained.

We could not give any options on this battery.

Truly yours,

HE France

May 24th, 1901.

Jes 3 2

Mr. E. Windsor Richards.

Dear Mr. Richards:-

I am in receipt of yours of yesterday from Philadelphia and I shall call on you at the Helland House, perhaps on Sunday, how that we may talk over the best way to employ your time on Monday next. Mr. Edison and I both believe that you should spend that day at Stewartsville, when you can see the Cement plant and the Crushing Machinery, which sachkee, however, is not now running, but it will give you, I believe, a general knowledge of what the Crushing machinery is. As you only have one day at this time, we cannot go to see the New Jersey Zinc Company or over to Lebanon to see a small crushing plant there, but I am sure that the experience you get in Stewartsville on Monday, will give you a more comprehensive idea of what Dunderland Plant will be than any other single plant you could see. Mr. Rdison says he will go up with us.

With best wishes to you both, I am, Sincerly yours,

To Mr. E. Windsor Richards, Holland House, New York.

May 29th, 1901.

Capt. F. H. Pollen, Manager,

Edison Ore Milling Syndicate, Ltd., Amberley House, Norfolk Street, Strand, Loudon, W. C.

Dear Sir:-

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Mr. Edison and myself have had another interview to-day with Mr. H. Roberts, the Engineer I cabled about several days ago. It is very important that we secure this man, as he has exceptional qualifications for this work. We have a written proposition from him offering to furnish the necessary engineering tools and instruments to equip one full core for Five Hundred (\$500.) Dollars per month salary, and living and travelling expenses. This man is of a very high type and were it not for the fact that he never has been abroad and sees in this short engagement a possible opportunity to enlarge his field, we could not get him for ten times this salary. He is broad enough to see that he will come in contact with men of affairs, outside of his own particular field and is anxious to go. Mr. Edison and myself have looked him up and he is endorsed by the highest Railroad officials in this Country, as being the best man for this particular work. We cannot keep him in suspense, as he must soon know what he is to do, and I would ask you to send Edison a cable upon receipt of this letter, whether this arrangement is satisfactory to the Syndicate. He is in a position after a survey

F. H.P. #2.

is complete, to build the road on contract, or build it for you under your direction. You will find him most intelligent and up to date. Pon't fail to cable us and we will send him along at once. He will bring his Wife with him.

Mr. Keene and Mr. Richards were at the Cement plant with me on Monday and yesterday I had Ainsworth and his group up there.

To-morrow Ainsworth and his group come over here to spend the day to talk business. After I have heard what they all have to say, I will write you a full and complete letter so that you may be posted. It begins to look to me as though they were running after us now instead of our going to them for found they were running after Sincerely yours,

J. E Fleck

55 May 31st,1901.

J. Lawrence, Esq.,

188 Fleet Street, London.

My dear Lawrence:-

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Yours of the 16th of May at hand and Mr. Edison and myself again congratulate you on your victory. I see that there is something about the Dunderland property which you want to talk over with me privately and just as soon as the bank of magnets is complete, we will send it to London with the man in charge and I will come over to be there as soon as it is erected.

Mr. Ainsworth, Managing Director and Mr. Scott,
Engineer of the Concery Company, have gone into this matter most
thoroughly and a report from either one of these gentlemen would be
as well worded regarding our interests as though we wrote it ourselves. When they were over here a month ago, they saw the
original magnet. Yesterday they again spent the day here and this
time upon showing them the magnet and not telling them that it was
the new magnet made from the special steel core which Mr. Edison
devised, they at once saw the superior article of the present
magnet over the previous one and saked what had been done to improve
it. This shows the wisdom of going slow but sure on this bank
of magnets and now everything is being rushed to complete it.

Mr. J. L. #2.

The pull of the new magnet is at least 30% more than the old one, which was considered by everyone to be perfect. Consequently, we reed denow magnets in the Mill and they will be very much cheaper to construct.

Windsor Richards and Arthur Keene are coming, again.
and Mr. Ainsworth says that he will bring the whole of his Board
to London as soon as our bank of magnets is crected. In the meantime, Mr. Edison and myself both believe that our policy should be
not to quote these gentlemen in any way, but to reserve all our
ammunition until we are ready to fire the gun.

The Crushing plantespecially pleased Messrs. Ainsworth and Scott and they say they are convinced that the process in every way is a great success. Mr. Ainsworth is very familiar with the Dunderland deposits and I see he knows more about their value than perhaps amyone outside of ourselves. He tells me privately that Prof. Lewis and he have had many confidential talks regarding this deposit. I believe that the whole money required can be furnished and will be furnished by the Iron trade upon terms that will be equitable to the Syndicate. I have not gone into this matter in any way with these gentlemen, all that I have been showing

Mr. J. L. #3.

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them was the mechanical and commercial side, the financial end has not been touched upon, although I have been urged by all of the gentlemen to give them an idea of what the Syndicate would do. I am leaving for Chicago to-morrow to spend one

week, but I shall return to spend several days with Windsor Richards and Keene before they sail on the 12th.

With best wishes, I am

Sincerely yours,

June 10th, 1901.

Messrs. Morgan, Harjes & Co.,

Paris,

France.

## Gentlemen: -

vM.

Supplementing the letter that Mesers. J. P. Morgan & Company wrote you referring to the Edison Storage Battery, which was written during my absence from the Laboratory, I beg to say that it will be some considerable time before the battery will be exploited abroad. The first factory is now being equipped with automatic and special machinery for manufacturing this new battery, and it will probably be at least four months before batteries in any quantity are turned out commercially, and it is our intention not to do anything abroad until we can demonstrate by actual commercial results just what these batteries can be produced for. It may be the beginning of next year before we will seek to exploit the battery in Foreign Countries.

The writer has had for several years a letter of introduction to your firm from Mr. Edison, but has not presented it. I will be pleased to at least show you what this battery is before any definite arrangements are concluded for France.

Very truly yours,

It Free

June 17th,1901.

Joseph W. Baucus, Esq.,

5 Warwick Court,

migh Holban,

London, W.C.

Dear Sir:-

Your extraordinary lotter of the 3th of June received this morning. When and where did you get authority from Er. Edison or myself to open negotiations with anyone for the Storage Esttery? when I saw you last in London, you asked me if there was any truth in the rumor that Mr. Edison was working on a storage battery, and I said there was, but I had said nothing about it, as it was yet incomplete. You asked me if there was any way you could help us in the matter when the proper time arrived, and spoke particularly of the Coates people, saying that through you they had invested considerable money in the New Jersey business at Ogden, and saked that they might be allowed to come in in some way should a Company be formed in England for the manufacture of the new storage battery, if the battery should prove successful, and I sais that I would report your wishes to Kr. Edison, which I did. Kr. Edison has his own views on what he wants done with the battery in proper time, and you are taking a most peculiar course to convince him that you could be of use to him.

Mr. Edison has been annoyed enough by Col. Gourand in

J. D. B. #2.

Latters of this kind without additional worry.

We are remembered, numbereds of letters, colles, etc. and to ased impulsy, we say that we are not ready to effer the battery to expere.

By advice to you, in order that you way not lose your good standing with the people with whom you have talked, is to put the matter before them just as it stands.

Yours very truly,

102

June 21st,1901.

Capt. F. H. Pollen, Manager,

Edison Ore Filling Syndicate, Ltd., 4,5,6 Amberley House, Norfolk Street, Strand, London, W. C.

Dear Sir:-

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Since your letter of the 3rd inst. was received, Fr. Anderson has been here and Kr. Edison gave him a letter to Kr. Darling, Constructing Engineer at Stewartsville, to let him see anything he desired, and I presume he is now there.

He informs us that the Cement Combine of Ungland, of which his Father is Vice Chairman, has made rather a muddle of introducing Rotary Kilns. On account of the primitive way in which they grind cement, they have met with great difficulty in grinding the product of the rotary kiln. He says that they are obliged to underburn, for if they burn it in a proper manner, it becomes so hard that their grinding machinery will not grind it, for all other appliances for pulverising cement grind, except ours and ours crush. The harder and more brittle a product is for our system, the better results we obtain.

We note that you are still uneasy and perhaps suspicious regrains the Edison briquettes. We infer this is because a nobody got up and made a min-statement which only puts him in a ridiculous position before the Iron Trade, who are the real judges in this

F.H. P. #2.

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matter. You can without difficulty procure from Mr. Ainsworth, Mr. Richards or Mr. Keen a statement which will be of value to you as against the sputterings of an unknown. We do not want to furnish you the complete Stanhope reports. In the first place, we are not supposed to have any report. A copy was sent us to read made by the Engineer in charge to the owner of the Furnace and we had a duplicate made from it and there are many things in this report which go outside of the stability of briquettes, and portions of the report are unfavorable, not on account of using briquettes, but on account of the Furnace being an old type Furnace and lacking in blowing capacity, etc., etc., and this report were it to leave our hands would reflect upon persons entirely outside of those interested with ourselves and could do no good; would undoubtedly lead to much trouble and put us in a discreditable position with our friends.

We have written to the Allentown Furnace, who use more briquettes than any other Purnace, to make us a report regarding their use, and as this is a modern Furnace, well equipped, it will be most satisfactory and we shall forward on its receipt; but we do not satise you to make public these matters at the present time, as the people you must rely on are men from your side and have been over here investigating on your account, and not bring any people

F.H. P. #3.

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outside, at least not for the present. .

As previously advised you, Mr. Edison vill sell a roll exactly like the one in use at Lebanon, for \$3,000, here. There will be some additional charge for putting on the plates, as at present we do not know the size they wish to crush to; but if they will correspond with the Lebanon people, who fitted their own roll to accommodate their own particular ore, I am sure that they would be pleased to advise them as to what it cost them to put on the necessary plates. It will not be a large expense and can be done by the Morris County Machine & Iron Company, but the buyers will have to bear this additional expense.

By January first, it is expected the Cement plant will be in operation; then in addition to the New Jersey Zinc Company can be shown a crushing plant capable of treating any kind of ore and will be the model crushing plant of the World. This you will then have to refer to and can be personally visited and inspected by the Mining men on your side. I hope that Sir Hiram S. Maxim and as many other eminent men who can will so into this sort of business, then the Worls will appreciate what Mr. Edison has accomplished; but not until then. This is a business that does not require a temporary spurt or newspaper booming to carry through. If the Company should now fail with the support that will be given it by Windsor Richards,

F.H. P. #4.

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Arthur Keen and Mr. Ainsworth, it would show that all this cry about the British Iron interests needing additional supplies of ore, was a farce. Hr. Edison and myself have been personally assured by two different groups that the money would be promptly forthcoming and I do not believe it will be necessary to rush into public print to find this money.

We note Patterson and Stead's analysis of ore briquettes and cement rock. The phosphorus in the Hematite is a little disempointing, but when one understands the primitive experimental methods we have used here, it is not to be wondered at, besides taking the low phosphorus in a low magnetite, the two ores combined are away below the limit in phosphorus.

Mr. Edison was very much interested in the assay of cement rock and he has had his Chemist work out three mixtures, any one of which will produce a high grade of cement, and we herewith enclose table of said mixtures.

All the castings have been received for the magnets and they are well underway, most of the magnets being completed. Hr. Eddson was obliged to change the design of this bank or magnets on account of showing the separation of the magnetite which Mr. Keen insisted upon showing, so as to make the process complete. It will take some little time to erect this construction in London,

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F.H. P. #5.

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and Mr. Ballantine will go over and attend to this part of the work. It promises to be rather a huge affair and will weigh perhaps fourteen tons, but it will be complete.

I am leaving in a few days to take a little rest up in the Country, but all your matters will have prompt attention.

Truly yours,

August Returner + & 1401 Newsfirk Ly Leutterner ! tack me the belighour with your elle Davidson Just That you blindly with one adduring to 184 hate Sh, Checago sugrigin surface what Mr Davis Low sura wer the phone that Mpe the work can to take any of the Edino Horage Halling Bonds and grickly aklege Shorty this Til Gick

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October 7,1901.

Arthur Keen, Esq. .

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DRIN

c/o London City & Midland Bank,

Lombard Street,

London, E.s.

Fy dear Fr. Escat-

I mm here in Orange, but Mr. Rdison thinks it best for me to remain a week or thouse us, if possible, to give me the complete data of the cost of railroad, etc. We are expecting to hear by every mail from our Engineers and from Dr. Lehmann.

He does not believe that I will lose any time, as it will be several weaks as sometimes to an be erected in London. You may run across Yr. Lawrence in the meantime, and as you know, he has been here recently.

I cannot say just what day I will sail at procent, but it will be very soon. I mantioned to Mr. Edison that I was about to make you may be need that Lo be Family remembered to you.

With best wishes, I me,

Sincerely yours,

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October 28th,1901

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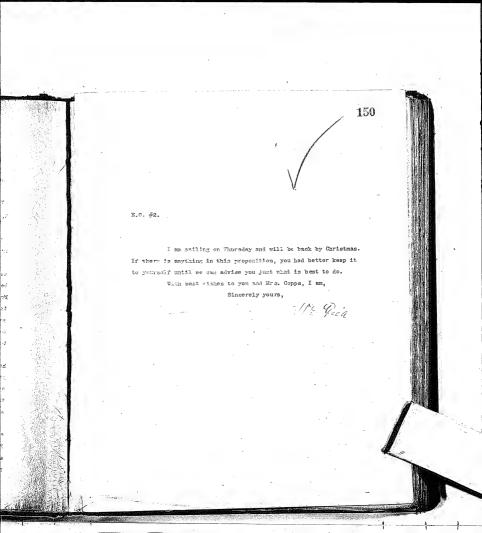
Michigan.

gring t Coppet-

I so raved last evening and with your letter in my poolet as a revainder, I looked up the piece of copper ore you gave me before leaving the Lodge, and found that it had not been assayed. Mr. Refore extended it and said there was both copper and nickel to it need it appeared to be rich. He said if he had a little soon of the bro. He would go into a thorough assay and also work ould a section of straitful the ore, provided there was enough of it to pay the rea to this expense.

Now, what I want you to do, is to write Mr. Edison just how much of a body of this ore you have meen; its width and whether monitone is aption on this property, and if not, how it could be amontoed, and he fact, all the particulars you can give him and if this mattrian him, he will go shead and work out the problem, which if I have some for weaks.

The water a continuent to Mr. Edison, be sure you state constity when you know to be a fact yourself and not hearsay and with your outselfcure that you have had in that Country, you ought to be shown divising Edison an intelligent outline of the whole your addition.



Tom Develhage

This will a traduce the Homan & Dick who is interested with me in connection with my new Storage Battony in Europe, He will applain about The

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Jan.3,1902.

Steve Albright, Esq.,

Room 28, Hotel Cecil, London, W.C., England.

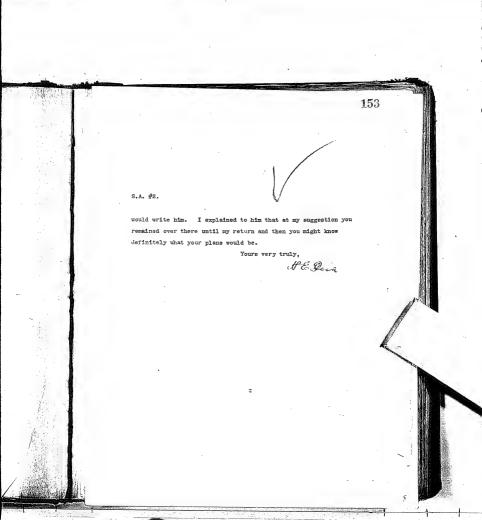
My dear Steve:-

I have yours of the 14th and also one of later date, and instructed the office in Chicago to pay your draft before I came on here last Tuesday.

I have not been feeling so very well for a few days in Chicago, but was obliged to come down here to meet some English Engineers who are returning Saturday. At present, my plans are to sail on the St. Louis on Jamary 15th.

Referring to Mr. Hawley, Mr. Edison says that he met him once only, but not at his Country home, and that he believes he had something to do with the franchise of the Erie, Raliway, in connection with Senator Platt, but that he knows nothing whatever about him and he has always understood that he was a promoter, pure and simple. I learn from other sources, that he stands very well with Senator Platt, but I can get no further information regarding the other gontleman you mention.

Zach Hofheimer seems anxious to hear from you and I told him that my impression was you had written him, but he said he never received a letter from you. He don't know what to do about your office and I believe it would be only fair to him if you



Milling Syndicate, Ltd.

London, W.C., England.

Jan.3,1902.

Edison Ore Milling Syndicate, Ltd., Amberley House, Norfolk St., Strand,

Dear Sirs:-

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I enclose you the original letter from the Grame Iron Works, as requested in yours of December 14th, also a copy of Mr. Edison's letter requesting a report on the briquettes. Please return this letter when you have finished with it.

Mr. Edison answered your cable requesting Lehmann to return, saying that he could not spare him quite yet, but in a few days he hopes that Lehmann will have finished his experiments here, so that he can return and see that the magnets in London perform their work properly.

I enclose herewith copy of Draft Prospectus with certain changed suggested by Mr. Edison.

The Engineers are returning on Saturday on the "Kronpring" and I believe they are perfectly satisfied with what they have seen here. They are bringing with them certain reports and estimates in detail, and as we did not have time to prepare duplicate copies, we will forward to you by next Steamer, copies of what we have furnished them and also copy of their letter to us requesting certain specific information.

E.O.M. S. #2.

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them info I left Chicago on Monday and have spent this week with them, but am hardly well enough to leave on Saturday, the 4th., besides, on account of my illness in Chicago, I left undone a lot or work which I must finish before I return. From the 4th inst. until the 15th, there is not a Steamer sailing, excepting some small alow ships that I would not risk the crossing upon; so that it will be almost impossible for me to leave here before the 15th. on the St. Louis. This season of the year all the large Steamers are taken off for a month or two and I do not care to risk the discomforts of a small Steamer at this time of the year.

I am sure that we will have the phosphorus problem solved perfectly satisfactory and I know that it will create a great deal of additional interest in this enterprise when the last samples sent by Mr. Edison have been assayed and found to contain practically no phosphorus whatever. Mr. Edison says, to be on the safe side, he can estimate the cost of this additional treatment for the eliminstion of the phosphorus at about ten pence per ton, instead of four to five, although the actual cost will perhaps be less.

Youre very truly,

(Enclosure)

AE Dick

6/11/02/HED/L

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Captain F. H. Pollen, Manager,

Edison Ore Milling Syndicate, Ltd., London, England.

Dear Sir:-

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Mr. Edison has referred yours of the 30th of May, regarding gold crushing, to me for reply, having made the necessary notes, which I enclose.

Mr. Edison lays great stress on the fact that with his system of crushing, there are so few fines, which is the terror of all gold mining Companies in Africa. It makes limes which are hard to treat and is a great objection in every way.

I am pleased to note the progress on the railway and I am very glad to hear that Mr. Walliam Rhoads has been elected a Director of the Three Companies.

Mr. Edison cays to vill hardly be necessary to send ten tons of ore; that he can experiment equally so well with one ton and he would be most placed to resolve it, and premises to give it prompt attention.

I enclose a letter received from Mr. C. E. Hall, No. 58 Foster's Buildings, High Street, Sheffield. He has been informed that same has been referred to you.

. Yours very truly,

(2 Enclosures)

6/11/02/HED/L

W.D.Heyne, Esq., Chairman,

Liverpool Warehousing Co., Ltd.,

28 Exchange St., East,

Liverpool, Ergland.

Dear Sir:-

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Your favor of the 30th of May to Mr. Edison, has been referred to me, as I attend to all Foreign business.

It is my intention to organize an English Company for the manufacture of the Storage Battery, just as soon as we can determine here by actual results, all empiness incidential to its manufacture.

I have just returned from London, having brought out the Dunderland Iron Ore Company, and it is probable that an English corporation will be able to deliver Edison Storage Batteries , in say, one year from this date. All the problems are solved and it is only a question of the time it will take to complete the special machinery necessary for their manufacture.

I have filed your letter and will advise you, as requested. Yours very truly, .

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0/11/02/HED/L

Edison Ore Milling Syndicate, Ltd.,

Amberley House, Norfolk St., Strand, London, W.C., England.

· Dear Sire:-

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I cabled you yesterday not to return the magnets. Mr. Edison believes that it would entail a large amount of expense and it would be well for you to keep the magnets for other purposes.

After a conference with Mr. Edison, Ballantine and Simpkin, it was determined that on account of the great expense of the magnets for Dunarizand, and in fact, the magnets being the crucial part of the whole operation, it was thought best to erect here, one unit of just what would go to Dunderland, have everything thoroughly tested and cheapened as much as possible, without interfering with their efficiency, and when finished here, it could be used as a pattern.

Mr. Simpletn to getting along very well and everything is progressing most amountly and satisfactorily.

After dictating the above re magnets, it occurs to me that it is not a matter for the Spadicate. I wish you would have this brought before the Dunderland Board, if you consider it necessary, as it is a matter, of course, for the Dunderland Company to pay for. It will be about four weeks before the complete

E. O/M. S. #2

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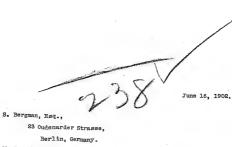
qa

briquette oven is finished; but I have great hopes and a firm belief that it will be a splended success. Simpkin is very much then with it and Ballantine also. From results already obtained, it does not seem possible for anything to come in the way of its success. The entire expense of bricking would be one shilling and the saving in the erection of the briquetting plant would be more than \$175,000.

Simpkin will bring over everything necessary to complete the design in London, and in fact, part of the plans he has in such condition at present, that he could invite tenders for them.

I expect to be here for sometime yet and then I shall go up to my Country place, where I hope to remain undisturbed until September first, at least.

> With kindest wishes to you all, I am, Sincerely yours,



168

My Dear Bergman:

I today cabled you to pay W. N. Stewart, who will call on you and with whom you are aquainted, a thousand marks. This is all you need to know. Pay him the money and I will forward it to you. Let him talk all he wants to, but you can truthfully say that you know nothing except that you had a cable from me to pay him the money.

Everything is going splendidly here. With kindest wishes,

I am,

Sincerely yours,

June 16, 1902.

Dr. Giorgio Finzi.

c/o Biroschi Finzi.

Milano, Italy.

Dear Mr. Finzi:

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I have yours of the 26th of May and beg to say that I arrived here about a month ago and after spending a few weeks with my family, am in Orange again and will be or a short time.

Before this letter reaches you will have undoubtly heard of the first test Mr. Bolls a made of the lattery. Within a week five automobile: ... he road and each will have to cover a distance of \$300 . 22 . . . . all kinds of roads and under all conditions.

If these tacts are satisfactory to Mr. Edison, the battery will be offered for sale in little quantities, the output being increased from time to time, as additional machinery is completed until the full capacity of the present factory is reached, which is about 400 cells.

I expect to go abroad the first of November to exticit the battery but in the mean time I small write you and if you deem it adviseable I think I could get Er. Edison to send over one cell for you to test before I arrive.

With best wishes, f am,

Sincerely yours,

June 18,1902.

Countesse Ludmilla Bobrinsky,

153, Rue de la Pompe,

Paris, France.

My Dear Countess Bobrinsky:-

As the foreign end of the storage battery business is in my hands, Mr. Edison has turned over to me your favor of the 29th of May, and in reply I would say that the American Company expect to be turning out a limited number of batteries in about two months, increasing the out put from time to time as fast as additional special machinery can be made.

I expect to organize a French Corporation in the early winter for the manufa ture and sale of the new Edison storage battery. This battery is all you say it is and especially adopted for vehicle traction.

Your letter by "een filed and you will be kept fully posted. Thanking you for the inquiry, I am, Bincerely yours,

Paul B Hone

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June 18, 1902.

G. H. Pollison, Esq.,

Elm Grove,

Windermere, England.

Dear Sir:

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As the foreign end of the storage battery business is in my hands, Fr. Edison has turned over to me your favor of the 30th of May. The American company will begin furnishing a limited number of batteries in about two months and it is probable that an English corporation will be organized for the manufacture and sale of the new Edison storage battery the first of next year. It would take about six months to put up a new plant with the special machinery and se it will be atleast something over a year before this battery can be offered for sale in England.

Yours very truly,

6/20/HRD/L /02.

Sir David Dale, Bart.,

West Lodge, Co. Durham,

England.

My denc Sir David: --

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I have always talked very frankly with Mr. Ainsworth about Mr. Mdison's interests and my own, in connection with the Dunderland enterprise, and I have to-day written Mr. Ainsworth that I am writing you this letter.

In order that you may fully understand the situation, I must go back to the time when Mr. Lawrence employed Mr. Simpkin.

At my urgent request by cable, Mr. Edison allowed Mr. Simpkin to go over to London and meet the gentlemen who were considering investing in the Dunderland enterprise. He could not well afford to spare him at that particular time, but sacrificed his personal interest to accommodate me.

Before leaving London, after having practically finished his work, he was employed by Mr. Lawrence at a salary largely in crosss of what he was receiving here and more than he would have seen willing to come for in the beginning of the work, at least. The agreement was made with him, unknown to me, and you will remember that the first time I heard of it, was at a meeting at the Linotype Company, where you, Mr. Ainsworth, Mr. Wallace and myself were present. You may remember how indignant I was when Mr. Lawrence

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made the statement that he had employed Mr. Simpkin for 32,000.

When Mr. Simpkin returned to this side, Mr. Edison was done in Florida at his Winter home, where he generally goes for four or five weeks and when he came back here, he found Simpkin in full charge, occupying a portion of the Laboratory.

Mr. Edison would have been willing to have turned over Mr. Simpkin had be been approached in a proper husiness like way, but he was not consulted and the employing or one of his best men without referring in any way to him, was, to say the least, most unbusinesslike.

Mr. Rdison has never received a letter requesting that he design the Dunderland Filmt, now has he been informed that Simplin is to be the Constructing Engineer, working under his direction. While there are three comparations, the Syndicate, the Construction Company and the Dunderland Company associated in the Dunderland undertaking, so far as the Dunderland proposition is concerned, the Board of the Dunderland Company must be supreme; therefore, it does not matter whether Mr. Simpkin was hired by the Syndicate or by the Construction Company, a letter must be sent to Mr. Rdison, advising him that he is to design the Dunderland plant, and that Mr. Simpkin is to be the Constructing Engineer.

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Mr. Simpkin is a first class man and the best possible man that could be suployed for this purpose, but in London, he only came in contact with the Chairman of the Syndicate, and came home full of instrictions from him. All the information Mr. Edison gets re Dunderland, he receives from Mr. Lawrence and from this end, it would seem as though he was in supreme domesting; and we all know how unfitted he is to direct a huge enterprise of this character.

Much work has already been done toward the designing of this plant and Mr. Edison has been were busy in this commection, so that no time has really been lost; but now, it is most important that Mr. Edison receive the letters above referred to.

Mr. Simpkin expects to leave here on the 5th of July, with the general plans complete, the details which will be worked out in London by Simpkin and his staff, and a blue-print of each drawing must be sent to Mr. Edison for his approval.

Mr. Edison has the utmost confidence in Mr. Ainsworth and his associates, and only desires the plant shall be a great success. It is for this reason that he must approve all plane and machinery to be used at the Dunderland plant.

You will remember, in our conference regarding the amount to be paid to Dr. Lehmann and Mr. Roberts, we all saw that effect #4.

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Mr. S. Buidt

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of paying Mr. Simpkin the salary we do.

I write you thus frankly and personally, because you are a mamber of the Symidoste, and in addition, hold abares in the Construction Company, and are Chairman of the Dunderland Company. Will you please have the above letters written as early as you conveniently ckbr, and greatly oblige.

Very truly yours,

June 24, 1902.

Vernon H. Brown, Esq., 29 proadway.

in die mannen 1

Few York.

Dear Sir:

hands, your favor of the 18th inst. enclosing letter from Mr. D. Cunningham has been referred to me by Mr. Edison, and in reply I beg that Mr. Gunningham's letter has been acknowledged and shall have attention when the time comes to form an English company.

Yours truly,

June 24, 1902.

Messrs. Quellmalz & Co.,

Sachsische Bankgesellschaft,

Prager Strasse 20, I., Dresden, Germany.

Dear Sirg:

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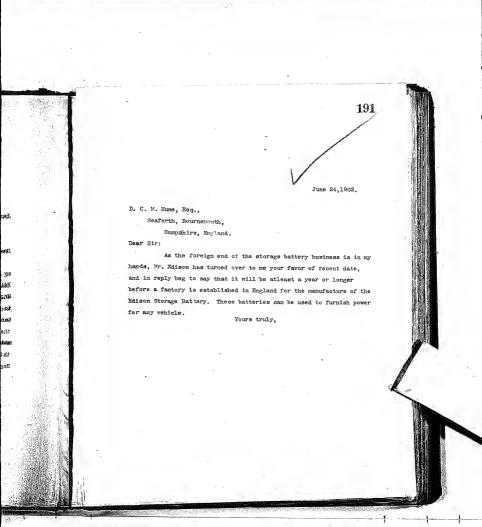
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Replying to your favor of the 5th inst. addressed to Mr. Edison, which has been referred to me, beg to state that a foreign corporation will probably be organized during the coming year in Germany for the manufacture and sale of the Edison Storage Battery; just how this will be done I am not in a position to say at present.

Your letter has been placed on file.

Yours truly,



Oct. 8, 1902.

Messrs. Frazer & Co.,

65 Wall St.,

New York.

Dear Sirs:

As the foreign end of the storage battery business has been turned over to me your letter of the 7th inst. addressed to Mr. Edison has been turned over to me for attention and in reply I beg to state that at present we are not yet ready to exploit the battery in foreign countries. We expect to organize a corporation in Japan as well as in other foreign countries during the coming year for the sale and manufacture of the Rdison battery but just how this will be done I am not am a position to say at present.

Your letter has been placed on file.

Yours truly,

H. E. Dick

ga Ondenerder Strasse,

11/17/02/HRD/L

Ferlin, Germany.

Mr dear Bergmannier.

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I cabled you on Saturday, as follows:

"Give long charge at thirty amperes for twenty-four hours to bring it back from heavy discharges you gave it, then discharge down to three quarters Wolt at thirty smpere rate. Thereafter charge and discharge at thirty supere rate; this gives best results."

The coll has been charged and discharged at too high a Your Weterinian probably was aware of this before you received to other. If he has any doubts regarding the charging rate, have lit charge and discharge the cell at 50 amperes.

I conclude a curve made from one of the cells you have essions who were it, and you will notice the charging and discharge curve is about the same. You will also note that the soult is not in squares the rame as yours, which at a glance looks to be better than it really is.

I arrived on Thursday afternoon, after a very tempestuous crossing but in good health and I did not miss a meal, although I never, in all my experience, have seen the Dining Saloon with less people in it. Only the old veterans took their places three times a day.

S. B. #2.

here. The efficiency of the battery keeps creeping up and we have now begun to assemble cells at the factory, and next month will equip one wagon each for all the leading Dry Goods concerns in New York City for their delivery wagons.

Mr. Mallory says that all the machines, etc. ordered for Berlin, will be completed shout Pebruary first. I am going this afternoon with Mr. Rdison down to the Chemical Works. I will write you the latter part of this week after I return from Stewartswille. I shall come back here shortly after Thanksgiving and put in my time standily until Christmas.

With kindest wishes to all, I am,

Sincerely yours,

AE Dick

(Enclosure)

11/18/02/180/1

T. P. Hardy, Race.,

Plus Mewydd,

Tronnent, W. Thes

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Yours of October Mist, ass near held pending my return

from Germany. I fear I connot promise you an Accumulator such as you desire for lighting. However, I wish to say that the accumulator is all right and is better than the claims put forward for it by Mr.

Edison. In this Country, we are just beginning to equip sutomobiles , having completed all the tests Mr. Maison deemed necessary. The present factory is only a small one and was equipped for the purpose of getting the business well in hand before beginning work on a large plant. It will have a capacity only of about 300 erals yet asy, and as orders could be had for many times this timing, recordly see how improbable it is to promise anything for

I expect to be in England, in perhaps sixty days, with a 62050111 iew harderles. Fortunately, they speak for themselves and their perforance will convince the most skeptical umbeliever.

Thanking you for your inquiries, I am,

Sincerely yours,

11/21/02/HRD/L

Mainer Ore Milling Syndicate, Ltd., Amberley House, Morfelk it., Strand, London, England.

Seretar Siretar

24

I enclose a statement handed me by Mr. Edison, showing the expenses of briquettes up to the present time. be very little more expenses connected with this, but Mr. Edison does not want to exceed the amount you have already allowed. It is most important that an additional allowance should be made him and I am writing you because it is not quite clear in my mind whether it is the Syndicate of the Dunderland Company who should to addressed, withough I understand the Dunderland Company is bearing the cost.

Mr. Molliday, Secretary of the Consett Iron Works has buck howe and looked over the brighething ovens, also the bank of macro\*\* a 60 Pich. By slee spent a fin days at Stewartsville.

Mr. Maison, since I lert England, has rade a rost emportant discovery regarding the manufacture of Portland Gement.  $\tilde{r}_{\perp}$  , we more important in the Gement world than the Bessemer process was in the Steal World.

B.O.H.J. #3.

We in while to make Coment absolutely uniform, always the countries of outs strength as his been heretofore unknown. He is within the Troumse Patints and I have had a complete undurationing with him respiring what he thinks is fair for him in turning over these patents to the Syndicate; and I so sure that when I come over and state these conditions, you will see they are most fair to the Syndicate and Cair to him.

Want to look for for almost any kind of shale or alste. You will slweps find a limestom (Corbonate of lime) adjoining. This deports, of which there will be no difficulty in finding, must befirst-well loosted; that is, it must be adjacent to maker, for as Mr. Edison says, there is no incentive for him to save a pamy a ten here and a normy a ten there, if all these savings are to be awallowed up in freight, royalties, etc. There is such a lugar to what of this education, but bear in mind that the most important of this education. It must be where a Dook can be built for madden to address. The call the most important of this address. The call programs. For wall supercoint the importance of this when I call you that any address any rational had, and it must be free-cast purposers. For wall supercoints the importance of this when I call you that a model of the same at Stewartsville will

E.O.V. 9. #8.

I. Bw

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move all the Portland Cement there is made to-day in England and dorby, years and all the appurtenances necessary to put these two plants in a going concern, together with the question of the dopo, it, and count less than one million stirling.

When you get these samples from the different deposits, converce with #1 and number them consecutively, sending Mr. Edison about a pound of each asmle and he will have them assayed at the Cement Laboratory at Saewartaville, charging you actual cont for the time. This will save a large sum of money for assaying and it will sho give Mr. Edison a chance to determine the character of the deposit. A complete record of these samples must be kept, to you know. With our machinery we can handle alste and no one also can, and under the process of this new discovery, we want slate and limestone only.

Also look out for dock and port charges in the different losslifes, for we are going to start in and do the Gement business of two Wallis and we do not want to be handleapped on the outgo by for of flora petty charges that cat into our profits. We have a great mergin but we would be keep that margin ourselves instead of paying 4t our unconceptarily.

We want to got at this just as soon as we possibly can and shove all things, do not mention that we want to make cement

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out of flate or we will bid up the Slate properties against ourselves. Just 30 shead quietly; find your properties and when Mr. Ridson is satisfied with the deposit, secure an option on it for outright sale and then we will ship over 500 tons of the slate, make cement of it and ship it back, and then nobody can be deceived in the matter.

It is smaring how the Cement business has reached the proportions it has with such little knowledge in the trade as to how cement should be made. I believe that the Syndicate can sud will control the Cement market of Europe and the profit in its manufacture will be conseiving signature.

These statements I make after cement has been made at Stewartsville. On account of this new discovery of Mr. Edison's, certain conveyors, atc. have had to be changed, but the Mill starts up in a very few days.

Very truly yours,

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(Enclosure)

11/21/02/HED/L

The  $p_{\rm H}$ lliner-Wigley Company, Limited, Goventry,

England.

Dear g'rs :--

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. Yours of October 30th, has been held pending my strival from tie other side.

It is our intention to establish a factory in Emgland at an early date, for the manufacture and sale of the new Storage Batters, and until that has been done, it will be impossible to offer ear batteries for export. Commencing about the middle of next gonth, a limited number of batteries will be delivered and the other ty increased until the fullest possible output is attained, as the redurance test conducted by Mr. Edison for the past four months, has been most satisfactory.

The batteries are sold for Pifty dollars per horse power hour, which is the preventing price of the lead battery on this side. There is no up-keep, as there is no depreciation in the battery and nothing ever has to be added excepting water and a batter takened by the sold be in as good condition and as efficient at the end of the great grants, as it is after times months use.

I have filed your letter for reference.

Trusting this gives you the information desired, I am,

Very truly yours,

J.C.Pin

11/21/02/HRD/1.

George Ainsworth, Rag., 3 18

. Consett, C.D., ENGLAND.

My dear Alnsworth: --

On

Mr. Edison has handed me your letter of October 30th, and saked me to say that mas as a fuel will not be suitable for the burning of the briquettes. He has schieved such aplended results at the Cement Works with powdered coal as fuel, and has been sole to so control the heat both in the Gement Rosser and in the briquette ovens that he is of the opinion that it is the fuel to be used. Not much has been done or can be done until he has received the Dunderland ore.

The bank of magnets 64' high is very hearly ready to be tested. In his briquetting experiment he is using, say, one briquette of Dunderland ore and 20 briquettes of Edison ore, as he is so short of the Dunderland ore.

I have not yet handed him your photograph but I told him I had it. It is in my truck which I have not yet unpacked as I have been expecting to leave for home every day.

Mr. Holliday has been to the Laboratory and up to the Cement Works, and after going over the Cement Works, has given us this seal of approval. He has asked Mr. Rdison for a photograph, and I will get him a small one. When he arrived at the

G. A. #2.

Laboratory on Wednesday, I was with Mr. Edison over to the Battery Works, and he had apoken to Mr. Mallory, saking if he could get a phonograph. Mr. Hallory asked me to see if I could get Mr. Edison to give him one. So far, I have not made the request, as Mr. Edison is more than 30,000 phonographs behind orders. Mr. Edison has put you on a list with instructions to have all desirable new records forwarded to you.

I expect to leave sometime in January but may take the Southern route and leave my family in Italy before coming to London. There are a great many matters I want to talk over with you when I see you, regarding Mr. Holliday's vieit here.

The Shipping Clerk at the Laboratory informs me that you must have received those large photographs of Mr. Eddeen by this time, as he has received word from the Express Company that they could not go satray, as they were in such a large box and the workings were correct. Upon receipt of this, if they have not yet turned up, I wish you would cable as follows: "Dick--Ghicago; No;" and I will understand.

With best wishes, I am,

Sincerely yours,

12/1/02/HED/L

Mr. S. H. Pollen, Secretary,

Fitzalan House, Arundel St., Strand, London, W .C., England.

My dear Sir: --

Mr. Edison has handed me yours of the 19th of November. We were under the impression that this was a briquetting experiment and that the Board were convinced the Hematite could be

separated and the phosphorus practically eliminated.

Mr. Edison has been using any Dunderland Hematite that he can find here and does not know whether it is 50% or 60% or whether it is high or low in phosphorus. What he is trying to do, is to produce a briquette from the Hematite only. As soon as the Dunderland ore is received, the bank of magnets will be ready for 'it and then we will be able to send you briquettes for analysis, but not until then.

We have no way here at present of separating but shall have the high bank of magnets ready to test this week; unfortunately we cannot go any further until we receive the ore.

Very truly yours,

3 1 12, Reg.,

12/11/02/HRD/L

H. F. Parshall, Esq.,

Salisbury House, London Wall,

London, E. C., England.

Dear Mr. Parshall:--

I have yours of the 25th of November and note what you say.

The great difficulty I am going to have, is, not to find money for the establishment of a menufacturing plant, but to use my very best judgment in selecting the persons who are to form this Company, outside of Mr. Eddson and myself.

I have been here for some few works and have gone into this Battery business very thoroughly. Ar. Edison expects to commence delivering a limited amount of batteries next month and this output will be increased gradually up to full especity of this first small factory.

The battery is all right. I have one weighing 545 pounds in my automobile, which theoretically, ought to take my funshout about one hundred miles over these Country roads. Practically, I never have gone over eighty-eight miles with it, but there deemed to be plenty of ginger left in it after travelling this distance.

I believe I can arrange to send you one cell shortly

after January first and I would like to have you see for yourself

what there is in it. It has always been my intention to invite

H.F.P. #2.

you to become the Consulting Engineer of the proposed new Company, and for this reason, I would like to have you satisfy yourself so far as it is possible to do, just what this battery is.

I am expecting to leave for Italy about February first, there I shall locate my family and come up to London on other business, as I do not expect to organize an English Company for several months yet. I want to be in a position so I can show just what this battery is. The cost of menufacture and all the thousand and one little details, which will take at least two months yet to procure.

With best wishes, I am,

Sincerely yours,

A & Deck

P.S. Please do not mention that you expect one of these cells.

W. N. : tewart, Esq.

12/11/02/HED,

c/o A. B. Gifkins & Co.

68 Victoria Street, Westminster,

London, S.W., England.

Dear ger --

I have yours of the 20th of November and note what you say

I asked Mr. Rdison yesterday about your question regarding the harinum eafe discharge rate of any given size cell and this is what he wrote:

owith our best auto of 38 cells, normal discharge rate 25 to 3" amperes, average 1.2 volts per cell, maximum rate, the vehicle takes on climbing the Ragle Rock hill, 105 amperes. The new cells will have a charging capacity of not less than 200 watts per cell. 18 pounds are say, one year of daily service."

I do not know that this quite answers your question, but it, , safe to say that the cell can be discharged at eight to ten times its hornal rate without injury.

I expect to leave here about February first for Italy and will go from there to London. With best wishes for your success, I sen,

Truly yours,

AED.in

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12/11/02/HRD/L

Mr. S. H. Pollen, Secretary,

Fitzelan House, Arundel St., Strand, London, W.C., England.

Dear Sir: --

I have yours of the 29th of November. It was impossible for me to get's reply to you in time for your meeting of Wednesday

I have gone into the matter of future cost for briquetting experiments, and find it will cost should 250. When this has been completed and a satisfactory briquette produced, which can be done, Mr. Edison will make his full report as to cost,etc. He does not seek these experiments here, in fact, they take up a great deal of his time, but he does this work because he is greatly interested in the success of the Dunderland Company. He says, therefore, when he has produced these briquettes satisfactory in every way, that his work will be finished. However, he says that before the Dunderland Company go to the expense of erecting the necessary number of ovens at Dunderland, that one oven should be erected such set they would use at Dunderland, and it should be built either in English or Nere, so that there may be no chance taken at Dunderland. One reason that the Cerent Mill has worked so well throughout, is that every unit of that Mill was made and tested here at the

S.H.P. #2.

Laboratory before being constructed at Stewartsville.

I am glad to note the shipment of 80 tons of the Dunderland ore on the Steamship Toronto, and we will be ready for it as soon as received.

Sincerely yours,

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S. Bergmann, Eaq.,
23 Oudenarder Strasse,

Berlin, Germany.

My dear Bergmann: --

I have been waiting to reply to yours of the 14th ultimo for your letter that you cabled was on the way.

I have your cable, saying that you charge 200 amperes and discharge 120; that is all right. Everything is sacrificed in this battery to duriability, and we have it from Altmann & Company, of New York, that the expenses of a two ton delivery wagon are \$5.60 per day, and the expense of the current is 23 cents per day, so you see the current outs no figure whatever.

Economy has been sacrifieed for duriability, which is the essential feature and in fact, the only feature for a commercial atorage battery.

When I receive your letter, I shall cable you wasther to over those batteries to your Professor at Munich or not.

These cells will show the invention as well as any.

I have ordered for you a Studebaker automobile and it will probably be ready to be shipped in February. It is only a runsbout but it is very durable and equipped with the battery should be able to make a run of about one hundred miles.

Mr. Mallory advises me that the special tools are being

S. B. #2.

hurried along and he will be able to ship about the first of February.

Everything is all right and you need not have any fears regarding the Storage Battery being a huge success.

Sincerely yours.

HE Juck

The formal lecture Company have pertamentation of the present the formal their motors mayoring to heading there is a they had their experient their motor thermany of about 70% whice all others only thow 50%. The J. Eles Clause their merter thomas of they view their merter thomas their vector from their water their motor of the product of the product of the product of the product of the sent of the surprise of the sent of the surprise for their species of the sent of the for elles pure as some as to see the them

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12/16/02/HED/L

Captsin F. H. Pollen, Manager,

Edison Ore Milling Syndicate, Limited, London, W. C., England.

Dear Sir:--

Replying to yours of the lat inst., I have shown your letter to Mr. Radson, also same the copy of my letter of the 11th of Eoresher to him this morning, and he said that you would rechably find Carbonate of lime close to shale or slate deposit. Eineatone containing more than 3% of magnesia, cannot be used.

Whenever you find Carbonate of Lime of a suitable nature, row will undoubtedly find it in suifficient quantity. Before securing options, samples should be sent to Mr. Edison, for analysis.

Yes, it does mean that in your search for deposits, you are not restricted to the location of "Cement Rock", as you have formulty been instructed to secure.

Mr. Edison just returned from Stewartsville last hight, smiling and happy and mays he has washed his hands of the Gement tuciness. The Mill is running satisfactorily and lave just cabled you to this effect. Remember, that at present, there are only two Emrhers constructed administration, and to bring the Mill up to its full depacty, six or seven more will have to be built; the reason for this being, that as these burners cost about Forty

F.H.P. #2.

thousand dollers each, Mr. Radson did not feel justified in creating the whole number until he was satisfied with the results by obtained from the first ones. After the plant has been mustage, any a month, a confidential report will be made.

The Rotary Kiln, Mr. Reison tells me this morning, can be interementelly run on an output of 32 barrels per hour, that is to any, that this seems to be about the maximum output with the lowest fuel economy. A greater output seems to increase the fuel consumption out of proportion, and Mr. Reison believes that, with an output of 32 barrels, the saving will more than justify the erection of an additional burner, as he saves eight pounds of coal on count sarrel at a 32 barrel capacity, as compared to a 40 or even a greater espacity.

We suggest at present, that nothing be said concerning the success of the Cement plant outside of a few trusted shareholders.

Very truly yours,

12/16/02/HSD/1

S. Bergmann, Esq., 23 Oudenarder Strasse

Berlin, Germany.

My dear Bergmann:--

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Yours of December 4th, with charge and discharge curve of the progress cell received this morning.

You seem to have fallen into the error of almost everyone outside of the intimate associates with Nr. Edison in the battery, which is not unreasonable possibly for you, considering the short time you have had to spend in acquainting yourself with the merits of this invention.

In the first place, my dear Bergmann, this is a new invention and in order that it be a commercial invention, everything has been sacrificed, as I wrote you several days ago, for reliability and permanency.

The cost of the current is nothing as compared with other costs, for example, the cost of the current for operating the tube in London, is less than 6% of all the other costs, so that any little saving in the matter of current to them, would mean practically no saving at all.

The cost of operating an automobile delivery wagon in New York, is between Five and Six dollars per day, while from their books, the Altmann people showed us that the cost for the current S.B. #2.

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001 1n was only 23 cents per day. What is wanted, is a commercial Storage Battery and this Mr. Edison has, and it is a new invention, and the cells you have will show that it is a new invention as well as any that we can send you. Of course, the cells will improve and are improving, as would be natural in any business, but it is the same invention at all times.

The cells you took over were the best Mr. Edison had at that time. Many improvements have been made since mechanically, and there are some cells coming through now that will give better results than those you have. We do not know here how much time we have before the Patent Office. Please emighten us on this point. We should have some of the new cells ready in a couple of weeks.

I am going to Chicago on Saturday but shall return about
January first. Mr. Edison has seen this letter.

Very sincerely yours,

Al Guil

S. Bergmann, Esq., 23 Oudenarder Strasse,

12/18/02/HED/L

Berlin, Germany.

My dear Bergmann:--

I enclose you a blue-print which is a rough sketch of the This has been designed for automobile I have ordered for you. me and I have ordered a duplicate to be shipped to you.

Shipment will be made sometime in February and will be s good serviceable runsbout for you. It will contain 38 cells and should have a capacity of about 100 miles. It is well built and will stand almost any kind of hard service.

The cost, exclusive of the battery, will be in the neighborhood of \$700. but this price you must not quote, as we are getting these outfits very close to cost price. the regular price will be in the neighborhood of \$1,000.

Trusting this will be satisfactory, I am,

Sincerely yours,



Lord Avebury,

Les

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8 St. James Square,

London, W.C., England.

My desr Lord Avebury: --

I so familing you a large photograph of Mr. Mdison. He says he does not know you as ford Avebury, for from the time he was a young man, he has you fixed in his wind as "Tubbook", so he has adjunct the photograph. To my friend Lobbook".

If I recently, the wave to remard at your convenience, your photograph to Mr. Milson and myself and this is to remind you that up to this time, they have not come to hand.

With kindert wishes from Kr. Edison and myself, I am, Sincerely yours,

HE Dick

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1/7/03/HED/L

Mr. Fred R. Bright,

1814 Spring-Garden St.,

Philadelphia, Pa.

My dear Bright: --

Hew you one the rec

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the

: #1

I have just returned from Gainego and shall be here about three weeks. Mr. Refson expents to be here, with the possible exception of a day or tro at Steverteville each week, all the time. I want you to come ever at your convenience, and you had better setting a matter of the world he going out of town, I can wire you and arrange a day when he will be sure to be here.

If you do not heer from me in enswer to your letter, you may rest assured that he will be here. I have explained to him how urgent it is for you to have a battery at the very earliest moment, and he spread that you have the first bettery that goes out, which will be very suon, as he understands that your whole automobile business is held up pending the delivery of this battery.

With hest wishes to your good wire and yourself, I am,

Sincerely yours,

HE Quite

William Simpkin, Esq.,

in Stendard Construction Corporation, Ltd.,

Fitzelan House, Arundel St.,

Loudon, W.C., England.

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I des rectised yours of the 22nd of December and also there is not 17th, defen who held here areating my return.

I had hoped I would be here when you arrived, but I am exiling on the 7th of Mebruary and will only be here one day just before I real. Lr. Endmon leaves for Florida about Pebruary 20°1, and he told no to say that in mase you were delayed for any serson, and that come down there to his house and see him.

I was all you say and I am sure you are doing what you think to best for all concerned. '-

Sincerely yours,

A Back

213

H. F. Parshall, Esq.,

Salisbury House,

London, Wall,

London, E.C., England.

Desc Mr. Parshall:--

I have yours on my raturn from Chicago, of the 22nd of December, and note what you say.

I have a most surprising and favorable report to make on the battery at this time and that is, Mr. Edison has recently found out how, by assembling and manufacturing the battery on a little different line from his original standard cell, that it is possible now to triple the discharge and charging rate without As soon as one of these new cells is sacrificing anything. complete, I am going to send at to you to play with.

I sat up well through the night with Mr. Edison last margire and we were entimating the great economies which could be made with station betteries such as he is about to construct. "He is designing and will shortly make one station battery cell. It will have a capacity of about 40 horse power hours and will be sold to Mr. Edison says there is the trade for about \$25. per H.P. hour. no reason why the station battery cell (which can be made much heavier than an automobile cell) should not last 100 years or

H. F. P. #2.

practically indefinitely, as the alkaline electrolite, of course, preserves the steel.

We estimated that on a New York lot 25 x 100, say , in the residential district, 50,000 H.P. hours could be stored without I believe that we will see your any difficulty whatever. branch of the business given the greatest impetus it has ever received by the introduction of this battery.

I could send you a cell to-day but it is not constructed with the new improvements on their charging and discharging, therefore, I prefer to wait for a few weeks until we can get a few dies made necessary to make the new cell.

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1/8/03/HED/L

Captain F. H. Pollen, Pitzelan House, Arundel St.,

London, W.C., England.

My dear Francis:-

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I have yours of the 19th first, and note carefully all you 897 ·

I am of the opinion that Lehmann is metting Paresis, is and it a great question whether he is going to be of any advantage to the Syndicate, unless to breas up and get his wits about him. The Cement Mill is running continuously but if there were

eight Rossters running, they would be in trouble, for this resson, and it is a most remarkable condition that they are confronted with st the present time. It is only because the Crushing plant's capacity so far expeeds the Roaster capacity that they have been shif to run for the last two weeks. This is not caused by any Fault in the construction of the plant but by this fact, that in the Cement Rook Quarry, the rain, of which there has been considerable in the post few weeks, has permeated all through the layers and frozen; then the day or two it would rain and freeze again. This has caused the layers of the cement rock which are extremely thin, to foliate like the leaves of a book, and the result has been that so much ice and soft clay (of which there are several seams a few

F.H.P. #2 .

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feet apart) have gone in with this cement rock that it clogged badly and the capacity of the dryer did not seem to be great enough to overcome this difficulty.

These poor results & mention happened when the Crushing plant was run to its full capacity; by running it one half capacity it caused very little arouble; yet, there is this feature which must be remedied. An easy way out of this trouble and what Mr. Edison always intended to do was to put a roof over that portion of the Coment Rock Querry that he was using, and every time a blast was made, the roof would be run back to a line of safety and then If the weather would brought forward again after the blast. stuy cold, so the rock would be frozen solid, there would be no difficulty. It is this alternate freezing and thawing, which has made the trouble, which, of course, you understand is only temporary and as soon we the roof is constructed, there will be no further trouble.

The Mill is running right along and the Roaster has never been shut down one minute since it was started.

I give you an account of all these little troubles, so that you may fully understand the situation just as it is. mining the limestone, there is no trouble of this kind, because it is solid rock in which the rain and olay cannot permeate.

HE Dich

298

1/8/03/RED/I

S. Bergmann, Esq., 23 Oudenarder Strabse,

Berlin, Germany.

My dear Bergmann:--

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I have nothing to report but the most favorable news.

Mr. Edison has recently discovered how to triple the discohering
and charging rate of the battery without sacrificing anything.

The curve he will be able to get is far better than a lead battery
can ever prove in practice, and the economy can be made even greater
in station batteries than lead.

Think, Rergmann, what it means to discharge or charge an automobile for station batteries in one hour. It means that safety fuses will have to be applied on every motor using an Edison Battery, and it means that you will go up a hill at the same rate of speed that you practicelly will on a level. As soon as at is possible to make a cell, the mechanical construction or which has been changed a triffe to meet these new requirements, I am going to send you one. The experimenting will all be over in one week and it is then up to the Factory to turn out batteries.

s. B. #2.

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per hor hours that ness an min n this line which will surprise even an old Manufacturer like yourself.

I have yours of December 20th and we are anxiously awaiting the Seubela translation of Professor Doctor Poerster report. We have found a reference which knocks out the Jourger patent completely, at places weep into he yourself, as I want to keep this up my sleeve for future use.

I have reports from London showing that everything is working most satisfactorily for you and you have stready had allotted to you the first contract.

I am realling with my femily for Paris on the "Blutcher", on Pabruary 7th. I shall leave them there for several weeks, while I go to London, and from London I will come to Berlin for a day or two; then back to Paris and down to the South of France and Italy.

we are all well at the present time and with best wishes,

I am,

Sincerely yours,

Al Buch

1/9/03/HED/L

George Ainsworth, Esq., Consett Hall.

Consett, C.O. Durham,

England.

My dear Ainsworth: --

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A Harris

I am glad to hear that you have at last received the photographs and I have just handed Mr. Edison yours. He asked me to thank you for it.

I am glad to hear that Bergmann secured the order upon price and quality. No one can make better goods than he and many turn out work which is much inferior. .

When Simpkin arrives, Mr. Edison is going into the briquetting problem with him thoroughly. He asked me to say, in his judgment, there is no need of any alarm in this direction.

I am sailing on February 7th, with my family, and we shall first go to Paris, where I shall leave them until I go to London Afterwards, we expect to spend considerable time in and Berlin. Italy.

Sincerely yours,

316

1/13/03/HED/L

My dear Bergmann:--

Edison

to you

I have your two favors of December 29th. Yesterday, I cabled you as follows:

"Latest results Nickel battery shows much higher discharge rate than lead, with far greater economy and no depreciation; weight 87# Kilowatt hour; - inform German Traction Companies. Mailing curves. (Signed) Edison."

The reason for our sending this was that there were so many cable dispatches in all the papers Sunday from Berlin, showing the lead batteries were a failure and that the Traction Companies were about to put in the underground trolley which would cost a very large sum of money. We thought under these conditions, you should be informed as to the latest results here. Mr. Edison did not believe so at first but came around to my way of thinking and together we got up the cable, and I prevailed upon him to sign it.

The fact is, Bergmann, that this battery is simply
"out of sight." The curves are about the same whether the battery
is charged at normal or several times normal or discharged in an
hour, or discharged in six hours. It don't seem to make very much
difference. These curves spoken of in cable, I doubt if we can
complete to send you before one week.

To put it in a simple way, when a lead battery is new, to

S. B. #2.

get the same output, it would require a battery four times as heavy as the Edison battery. I am sure these curves will be a revelation to you and this great improvement has been brought about by a simple change in the mechanical construction only. With hest wishes, I san,

Sincerely yours,

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S. Bergmann, Esq., Berlin, Germany.

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370 /1/22/03/HBD/T.

S. Bergmann, Esq.,

23 Oudenarder Strasse,

Berlin, Germany.

Dear Sir:--

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Dear

The solution of the second

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I was over to Glen Ridge yesterday and Mr. Hays showed me s letter which you had written enclosing cut of press you think of Buying, and I at once cabled you as follows:

"Do not buy press or anything for battery until you receive my letter; changes made."

I have stopped work on the Briquetting machines as these will not now be needed; without going too much into the detail, as it is hard to do so by letter, I wish to say that Mr. Edison has made the recent great improvements by making the pockets just helf as thick and loading the active material dry. This will simplify the manufacturing proposition very much and the results he has obtained are most surprising.

At the Automobile Show, where a battery is on exhibition, it has created the most intense interest. Highes written a card and eigned it as follows: "An Edison battery weighing 460 lbs. in a Baker Runabout, runs 100 miles at an average speed of 10 miles an hour. On one hours charge, it will run 75 miles, over fairly level New Jersey macadamized roads. Reducing the weight of the battery reduces the distance in about the same proportion. This

S. B. #2.

battery can be completely discharged or overcharged without injury."

Mr. Eddson is testing a motor designed by Mr. Churchward, of the General Electric Company who has charge of their small motor work. It is believed that this is the most efficient motor yet produced. Mr. Churchward has this patented abroad and he said he would come over and see me this week regarding the Foreign rights. If it should prove to be an ideal motor, perhaps a working arrangement might be made whereby you could make the motor. This I will look up thoroughly and talk over with you when I see you the latter part of February.

Sincerely yours,

Al Shile

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1/22/03/HRD/L

Joseph Laurence, Esq.,

c/o Lintype Company,

188 Fleet Street,

London, England.

Dear Sir:--

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I received yours of the 29th of December several days ago but I have been working every night with Mr. Rdison until midnight and sometimes later, so it seemed to be almost impossible to get time to catch up with my mail.

I cabled the Syndicate yesterday upon receipt of Captain Pollen's letter and also one from Mr. Rudd, and I am to-day writing the Syndicate a very plain letter which, of course, you will see. I write you this part separately, as I do not want to drag Arthur's name into the matter before the other Syndicate members.

I have tried to keep the Syndicate posted as to every movement made here re Gement and when Arthur was here contained.

I told him what Mr. Edison hoped to be able to do shd at the same-time he understood that we had only two burners built, whereas we shall probably use nine or ten. You can easily see, that with the crushing capacity of five times the burning capacity, you cannot yot results, but from what had already been done, it was an indication of what might be done with the full burning capacity at the Mill. I did not tell him that we had the cost down to the

J. I. #2.

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ow.

n 'n⊅∦o mov price you mention and might get it lower. I said, that taking a careful survey of everything and the splendid way which every part of the plant responded to its work, that we probably could attain these results. It looks to me that Arthur has given these points which I gave him in confidence, as facts, and that you have gone shead on this supposition, which is a grave error.

Regarding the Dunderland shares which the Directors are to receive, will say, that I do not want you to divide with me. What I want, is to have every Director satisfied, even though I do not receive one share for myself and I feel that Wallace has been in from the beginning, we must be fair with him.

I have this morning yours of the 9th, enclosing olipping from "Financial News". I have showed it to Hr. Edison and he cares nothing about it.

We are all well and I thank you for your kind wishes, which I return.

Sincerely yours,

of Edich

S. Bergmann, Esq., 23 Oudenarder Strasse,

1/23/03/HED/L

Berlin, Germany.

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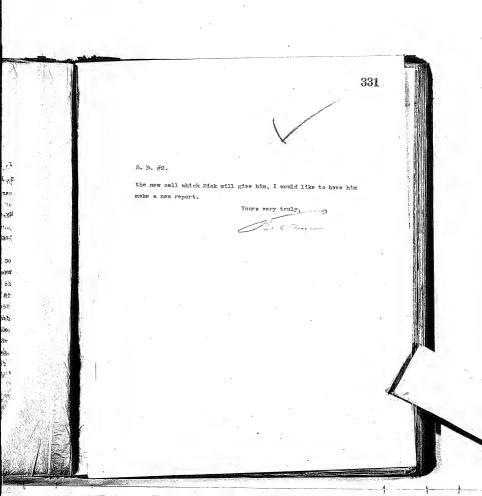
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I am much obliged for your favor of the 8th inst. enclosing report from Professor Forrester.

When Dick goes over, he will have a small cell for Professor Forrester to play with, and he will be amazed with the results he is sure to obtain.

Referring to that part of your letter where you say that it has lested out that you are going to have the manufacture for Germany, I must say that this is a great surprise. It was never intended that you should manufacture the battery in Germany or elaswhere but that you would be one of a number of strong firms who sculd be asked to join me in this business. The shipping of A 1940 tools to you was for the express purpose of showing the manufacturing side of the business and not for the purpose of making. befaertes to sell.

Now, Bergmann, this was all well understood between you, myself and Mck. Dick is to do the financial part of the business; I am to furnish the Dattery; you are to look after the manufacturing and that is the manner in which this proposed business must be con-After Professor Forrester has had time to criticise



314

1/22/03/HED/L

F. H. Pollen, Raq., Musicallying Structure Fitzalan House, Arundel St., Strand, London, W.C.

Dear Sir: --

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Referring to yours of the 7th of January, I herewith hand you a memorandum made by Mr. Edison, which will answer your questions satisfactorily.

We will send five barrels of coment to the Consolidated Gold Fields of South Africa, as you suggest, for testing. Before Simpkin comes over, you had better find out just exactly what is wanted with the gold ore from South Africa, which we have received; just how fine they want to crush it and all the particulars, and give same to Simpkin, and when he returns, he will be able to give all the information required.

I cabled you yesterday, upon receipt of two letters from Mr. Rhonds, as follows:

"Why this rush with cement. You have no deposit, no data from mill here, nothing to offer. No satisfactory proven production cost can be given until Reaster plant complete. Exploiring Company now means bisating Syndicate prospective cement profits. Wait for letter."

You are putting the cart before the horse by your proposal to bring out a Cement Company at this time. You will remember,

F.H.P. #2.

that I wrote you sometime ago, stating just how we thought would be a commercial, businesslike way of bringing out a new Company.

First of all, we said you must find a deposit and send to Mr. Edison samples for assay which he will have made at the Cement Laborstory and charge only cost for the work. Then, when a suttable deposit is found, secure an option on same and ship 500 tons or less of the Cement rock to Stewartsville, where it will be made into cement and shipped back, then there can be no controversy as to whether the deposit is suitable or not, for you will have the cement made from it.

I also point out that the espacity of the Roasters at the Cement plant are only about one fifth of the capacity of the Grushing plant and that owing to the great expense in building these roasters and also that they were more or less experimental, being on such large lines, that Mr. Edison did not care to invest over thousand dollars (the cost price of the two roasters) until he was satisfied that they were all he hoped for. After these roasters have run several months and if they do not show any defects, the additional roasters will be gradually added, until the Roaster plist is complete. Enough, however, has been proven so far by their work, to give Mr. Edison a good indication of what will be done in lowering the manufacturing price of cement by the full equipment.

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F.H.P. #3.

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tdone equi You must remember, that every statement you make regarding the cost production of cement by this process, will be challenged and fiercely challenged, and unless you are in shape to show a going business, producing cement at the cost you state, you will find yourself in a most riddenlous position.

If you and Mr. Rhoads sail on the 21st of February, you will find the Cement plant running and can form your own impressions from it. Mr. Edison will be in Florida and I will be on the other side, but you will be most welcome and Mr. Darling, will take good care of you; but you will not at that time be able to procure such figures as would be useful for a prospectus, for you can understand that if one portion of the plant has a capacity of five times another portion, the net cost of producing cement under these . conditions will be abnormal as compared to a complete Mill. You will be able, however, to satisfy yourself, for you seem to be somewhat incredulous that coment can be made at a much less cost For our part, we cannot conceive why a than any other process. Company should be even thought of without a deposit. The more you talk Cement Company, the more you raise the price of favorable properties against yourselves. This should be a very pretty proposition if it is not rushed. Here will be a going Cement business, producing a certain number of barrels at a certain price;

F.H.P. #4.

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that will be the condition on this side. On your side, would be an equally good quality of cement rock, sdvantageously located, a portion of it having been shipped over here, made into cement and returned to you subject to anyone's inspection and test and there you would have the data from this side and the cost price. From your side, the conditions being similar, it would be only reasonable to presume that cement could be produced equally as cheap as on If this is not a clearly commercial proposition, I have never had one brought to my attention; but, on the other hand, if what you are proposing to do now; rush off, form a Company without a deposit; without data, without anything, and rush pell mell into the business, you will find yourselves simply pulled to pieces; and our prediction is, the flotation of a Company at this time would be a dead failure, and in fact, we are against it. The Syndicate has a great future in cement and there is no good reason why the business should be jeopardized in its incipiency by undue haste.

I enclose a letter for Mr. Simpkin.

I note another opinion by Mr. Norborg-Schultz, of Norway, regarding the Wetherell patents. When I was there last, I stated that before any more patent cases were submitted to anyone, the patents in addition should be first submitted to Mr. Edison so that

F.H.P. #5.

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he could give you all the necessary data. No one is able to judge a patent by itself, it must be taken into consideration and conjunction with all other patents in all other countries, and as Mr. Edison in the Pioneer and knows more about this particular business then anyone, he should be consulted, before such action is taken and you are simply inviting trouble by getting expert opinions on individual patents. The Wetherell patent was taken to Germany and sold for a large amount of money. The Company who sold it, afterwards gave up its charter and went out of business, solely for the reason they were afraid they would be called upon to return this money and this is well known.

Mr. Edison has numerous patents on this art, antedating the Wetherell patents and it is unjust to him for you with your limited knowledge of this subject, to be seeking expert opinions without first consulting him.

Many Min

1/23/03/HED/J.

(CONFIDENTIAL)

Vm. Rhoads, Esq.,

Flore Fields,

Weedon, England.

My dear Rhondes.

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I have your two favors, one of January 6th, the other not dated.

I have written a full and comprehensive letter to the Syndicate re cement, as we see it on this side. I should arrive in Paris on the 15th or 16th, and after taking two or three days to get acttled with my family, I shall come to London and be there before you sail on the 21st.

You will notice in my letter to the Syndicate, and you have undoubtedly seen the cable I sent, which was approved by Mr. Rdison, it is a problem to un here to see how anything can be done toward the formation or a Cement Company at this time. However, all of this is explained in my letter to the Syndicate, so that I need not burden you with it here.

So far as your being Chairman of the Company when it is formed, I will say that it meets with our unqualified approval, and this feeling also extends to Mr. Hawkeley, who will hereafter, conduct any legal business that I shall have in England. I have ordered five barrels of cement to be sent to South Africa, as requested.

. W.R. #2.

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So far as the detail of the new Company is concerned, I sm willing to leave it to Hawkeley largely, being satisfied that he would protect the interests of the Syndicate, stipulating, of course, that Mr. Edison should have what I consider, his rights.

The profit will, in all probability, be considerably more than you state. Cement has been selling f.o.b. at the Mills in this Country until the cold westher set in, at \$2.25 per barrel of 400 pounds. At present, the weather prohibiting its use the price is from \$1.75 to \$1.90. I have not the figures at hand at present, giving the total consumption but it is in all probability, close to twenty were barrels and the demand is increasing beyond the capacity of the Works to supply.

I enclose a clipping from last week's Gement paper which will give you some idea of the imports from different countries, which is given in pounds. Wages abroad, I believe would be somewhat less and fuel would be about the same. From here, I cannot say how soon the patents in South Africa must be worked and it would not be such a tremendous expense to erect a small Mill in South Africa, provided the material was there; to protect the patents. This Mill would yield a good profit and could be enlarged from time to time.

I see that you have been incoulated with the Edison

W.R. #3.

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improvement mania. Nothing has been changed at the Mill and this improvement you speak of was brought about by Mr. Edison's efficient machinery and plant which enables him to make the same quality of cement all the time without any risk of poor cement, as is the case with every other process. This great efficiency of the plant permitted Mr. Edison to take out a process patent to protect himself as well as our associates and it was for the good of the Syndicate that I did not mention this in detail. We have learned that our confidential co-munications to the Syndicate are in turn repeated to confidential friends until the subject becomes common knowledge, and we wanted to protect ourselves and you at the same time.

I should like very much to meet you with Mr. Hawkaley on my arrival. I am sure that any clear headed business man can see the great danger to us by prematurely exploiting as fine a business as the Cement business will be. Mr. Edison has written Mr. Pollen just what he is to look for in the way of Cement material and he is not limited to one class of material.

I wish you would get the letter that I have written to the Syndicate and show it to Mr. Hawkeley and Mr. Rudd. Always keep in mind, my dear Rhoads, that the location of a cement deposit

₩.R. #4.

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With kindest wishes to Mr. Rudd, Mr. Hawksley and yourself,

I an,

Sincerely yours,

IF E Price

(Enclosure)

1/23/93/HED/L

Mr. W. H. Carlin, Electrical Engineer, Rand, Jumes, Limited,

Johannesburg, S.A.R.

Dear Sir: --

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FEC.

Your favor of December first to Mr. Edison has been referred to me, as I look after the Foreign business.

It is not Mr. Reison's intention to build sutomobiles but only to furnish the batteries. We are commencing this month to turn out a few batteries and the output will be gradually increased as soon as the special machinery can be made and installed. There are no serious difficulties in its manufacture and it has only been a question of building automatic machines to do the work cheaply.

You might be interested in learning that the Edison battery weighing 460 pounds, runs a Baker runsbout 100 miles to a standstill, at an average speed of 10 miles an hour throughout, over fairly level New Jersey macadamized roads. One hours charge will run the same vehicle 75 miles; lessing the weight of the battery reduces the distance in about the same proportion. The battery can be discharged completely, overcharged or leftdischarged without injury.

The above was signed by Mr. Edison and posted at the Automobile Show in New York. It will be some little time yet before Mr. Edison will build station batteries and it will be

W.H.C. #2.

several years before he can equip a factory of sufficient capacity to furnish the demand for the automobile business.

Trusting this has answered your inquiry, I  $_{\mbox{\scriptsize sm}},$  Sincerely yours,

1/23/03/HED/J.

John Quinton Bruce, Esq., F.A.S.I.A.,

94 King William St.,

Adelaide, S.A.

Dear Sir:--

Your favor of the 18th of November to Mr. Edison, has been referred to me, as I attend to the Foreign business.

I will give you a statement of Mr. Edison, signed and posted at the Automobile Show, which is being held this week in New York. It was this:

"My battery weighing 460 pounds runs a Baker automobile containing one person,100 miles to a standatill, over fairly level New Jersey macadamized roads, at an average speed of ten miles an hour. One hours charge will run the above mentioned vehicle 75 miles! Adducing the weight of the battery reduces the distance it will go in about the same proportion. This battery can be discharged completely and remain discharged, overcharged without injury.

Always remember, that the cost of the current is the least of the costs in an automobile. The records from the large Department stores in New York, who are using electric automobile wagons, show that the cost of the current is only 23 cents per day, while the whole cost is about \$4.00 per day. In any event, the Edison

BEAUTON CONTROL OF STREET

J.Q.B. #2.

battery charges as economically as any. We shall have no batteries for export, as it is our intention to establish factories in all principal countries of the World, to control their manufacture and sale. The price will be in the neighborhood of 43 per horse (# /3) power hour for automobile batteries.

Truly yours,

H & Fich





S. Bergmann, Esq.,

23 Oudenarder Strayes,

Berlin, Germany.

My dear Bergmann:--

I have just remarked yours of the 10th inst. and have read Professor Foerstor's report with great interest. I am sundant to hear what he will say when he reports on the next cell, which I shall bring over. He will be very much surprised, I am rure.

His fee is most remonable and Mr. Edison was especially pleased with this and suggests that he be employed for future work when necessary.

The tron side has considerably more especity than the mickel.

At is hardly necessary for me to say Mr. Edison has known all the time but it has not the great advantage which he states.

With best wishes, I am,

Respectfully yours.

A & Dieso

2/4/03/HED/L

My dear Bergmann: --

I have your two favors of the 20th and 22nd of January. As proviously advised you, I am sailing Saturday with my family on the Blue cher and will go direct to Paris and from there to London and from London I shall come to see you for a few days and go into all this matter fully.

The battery as it is now, compared with when you saw it, 's at the ratio of 1,00% to 100%. All experimenting has ceased and it is now a question of getting ready for the Manufacturey. Nothing but the grid die is the same as when you were here, therefore, everything has been stopped until the new machine designed for filling the cups with dry active material and closing them in place is complete, which will be quite soon. The results from this final change as far as efficiency and charging and discharging at a high rate, is something marvelous. I shall bring a small cell with me only and on which I will have Foerster make a report, same to be held until he gets a large cell to confirm the results of the small cell.

Although my automobile is ready and the battery tests out more than 200 watt hours per cell and is splendid in every particular, I have decided not to take it just now but to wait for the new battery and have it sent over later. I do not want to be in the position of explaining that the battery I have is different

S. C. #2.

Pivo. Cie ones ve pronose runnisatiri. Dun't mention Jungmer patenta te diviodir. In only dismuffer their chains and there is outhing to lives to fear. Pouls the frame of our German patents as fram as more bia, he se count to more its sursained as soon to be one outcountries.

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Winderely power,

G. De Jakon, Mary.
 Pooling Geometry.

## Edison Ore Milling Syndicate, Ltd., and Related Companies Letterbook, LM-282

This book covers the period April 1902-January 1908, with most of the letters dating from 1902-1904. The letters consist primarily of instructions, sometimes accompanied by drawings, from Edison to draftsman William Simpkin regarding the plant and machinery at Dunderland. Some of Edison's comments pertain to the receipt of Dunderland briquettes at West Orange and to plant operations at the Edison Portland Cement Co. in Stewartsville, New Jersey. There are also letters concerning drawings from the New Jersey and Pennsylvania Concentrating Works.

The flyleaf is inscribed "Aug 12, 1902 – Jan 29, 1908 Dunderland Iron Ore Letters." The spine is stamped "Letters." The book contains 995 numbered pages. Pages 180-925 and 963-995 are blank; pages 100 and 102 have been removed from the book. Approximately 40 percent of the documents have been selected. The unselected thems are primarily duplicates of letters that appear in the Standard Construction Corporation, Ltd., Files, General Letterbooks Series, and Document File Series.

Sept. 2, 1902.

Dr. Theo. Lehmann.

Dunderland Iron Ore Co.,

We on the Fjord of Renen, Norway.

Dear Sir:

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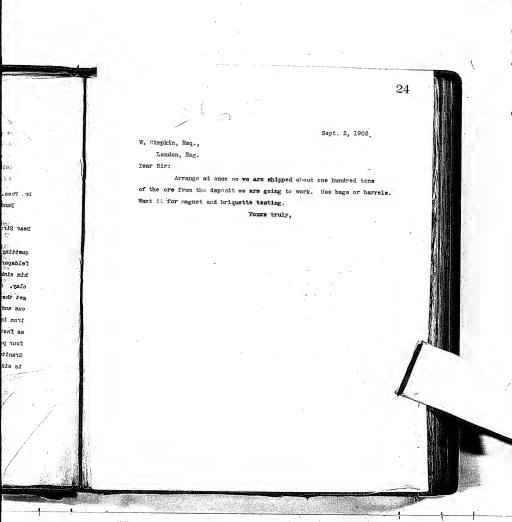
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We shall want some tlay and also some feldspar for briquetting. Please neighbor to one of your men the task of finding feldspar around Dunder Land or within fair shipping distance, also have him sink small holes in the hottom lands along river and creeks for clay. Get as many eauxples from eil localities you man as I want to get the phosphorous low. Some feldspars and clays are high in phosphorous and others are low. Fotash or soda feldspar will answer. The most iron in the clay the better, a brick clay is preferable; send samples as fast as you get them; send two pound samples as the smallest amount, four pound samples would be better, also send all kinds of Gneiss and Granite, as we can use that if of right kind. Our briquetting mixture is sixty feldspar and forty clay.

Yours,



Sept. 8, 1902.

Dunderland Iron Ore Co.,

6 Clements Lane,

London, E. C., England.

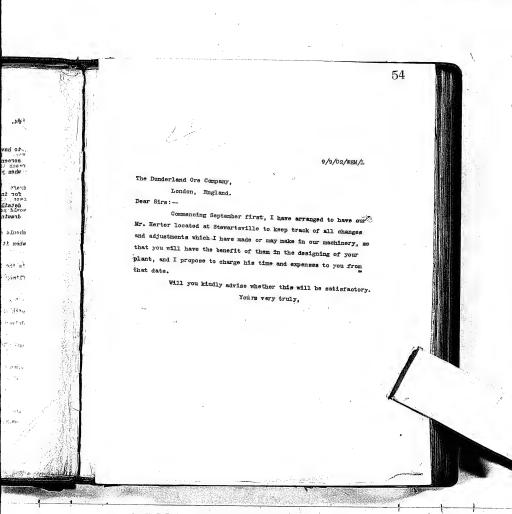
Gentlemen:

I enclose photographs of the two kilns and furnace at the Laboratory and of the briquettes. Our experiments have progressed to such an extent to warrant the building of a tunnel furnace, the brieker and cars will probably be finiahed within a-month. We have succeeded in making a satisfactory briquette. The difficulties that have arisen are due to the peculiar character of the specular ore. There is no trouble in briquetting magnetite and other ores. As soon as tunnel furnace is working I will make a shipment of briquettes.

The total expenditures to date for kilns, furnaces and experimenting have been \$5260.25 of the fire thousand authorized. A further sum will be necessary as I want to get the forming apparatus so simple that three men can attend to furnaces. I expect the output per furnaces to be from 125 to 160 tons per day.

Yours,

ij



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Letter No. 10.

Sept. 27, 1902.

Wm. Simpkin, Esq., London, England. Dear Sir:

For the last two weeks I have been sweating blood over the spouts leading down from the S. to Roller feeds of blowers at Chalk blower. I wrote you that I changed the spouts, raised the angles and massed the ends altogether and dumped right on top of them, doing away with the inverted Y and using a separate spout for each blower. Well I have come to grief day before yesterday on account of segregation of ore in Bijou by coarse stuff rolling down cone and fines staying in middle and raising of air pressure on rolls the fines were much increased. Every chute blocked even the 60 angle chutes. The ore was bone dry yet the moment the fines increase beyond a certain amount you can ball it in the hand and throw the ball up 6 inches and back on hand without breaking. The pressure in the spout bricks it into a solid column. We found yesterday by experiments that it will stay in a vertical pine.

You say that you think of using feed holes at the blowers instead of the roller feed. I am sure that this will be unreliable and these holes can not be used until the impalpable dust is blown out, it is surprising what a slight accession of dust will do above a cortain amount. At Dunderland we shall have to contend with very wet weather over long periods and it is not a certainty that we will

#2 W. S.

have our ore dry at all times. At Edison we had the same Dryer as at Stewartsville but we found that many days each month the ore coming from the stock house when crushed to 14 mesh was so damp that we had great trouble in getting it through the screens after magnetic separating. We were compelled to build another and smaller dryer to dry it so we could crush it to 40 mesh and screen and separate on the other magnetic separators. We have the same trouble at Stewartsville but as the pile of ore is moved from its original dump to another and returned with a hot blast of air going through stock house it gets perfectly dry. Of course the ore at Edison had a great tendency to hold moisture by reason of the large amount of decomposed or knolinized felspar and the rotten gement rock here is very much more difficult to dry than Dunderland which is ideal, still we do not have a second dryer as at Edison or a mixing belt as in cement and taking in consideration the bad weather at Dunderland over weather here I feel pretty well assured that the feeding by holes to the blowers will be a source of endless troubles; at the magnets it will be O. K. Ballentine uses holes here on crude ore but our crushers do not make fines like the 3 High and the ore is very dry so there is no comparison with actual conditions.

We are now constructing at the S. dumps at Chalk blower two feeds instead of roller feeds, feeding into the spouts we use two screens and run the two screens by a sprocket from the lower pulley of the S. by a single chain and idler. We use a two and fifteen shaft with our regular bearings. On one end the screw pitches in one direction and on the other end it pitches in the opposite direction. The pitch is 6 inches. Thus each screw carries ore to

Letter

Wm. Simi Lor Dear Si

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#3 W. S.

the right and left and at each end the spout is made square about 6 inches from end of screw thread, the stream is split by a sheet of iron and drops into two minutes. Thus one shaft with its double screw screws 4 spouts, the other screw the same number. The angles of spouts at 60 & 56. The feed is set to give a little less per hour than the roller feed below, in our case 18 tons is feed by the screw into the spout and the roller feed is set for 20 tons. I have provided for any contingency by putting in an overflow at roller feed hopper at blower, so in no case can the chute or spout fill up. There is no trouble to run loose ore, I will send you complete sketch when we are through with the experiment. Horter is still sick abed but hopes to return Monday, otherwise you would have received the sketches previously promised.

In re the pinions on the drive of 5 ft. rolls. At Edison we hild as I previously informed you, trouble with the pinions breaking, so you can not make them too strong. We had the shaft at first with its bearings on 12 x 12 timbers but the terrible thrusts on the pinion when it had to shear the 5/8 shear pins tore the bearings away from the wood. You will have to have well anchored bearings and short centers and heavy shaft. I suppose you will connect the motor by a shear pin coupling. This is alright but as my forethought is not so long that it sags in the middle I suggest that the geara have a bronze bush and be put on the shafts like the drive pulley on 3 High at coment, and proved with shear pins and in addition a row of boits. At first you can use the shear pins and after a while you find that the motor shear pins is all that is required you can then put in the boits and dispense with the shear pins on gears. It is internal stresses, that I fear.

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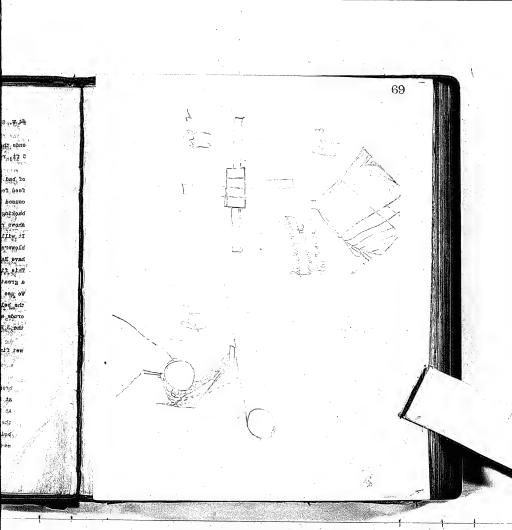
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ent at the feat 10.10 on a The more I see of the 3 High housing, the weakness of the ends the more I am in favor of the giant style of housing for the 5 ft. rolls.

Here is a pointer torget to tell you about when speaking of bad effect of narrowing chouse abruptly. fig. 1 shows the roller feed feeding stuff from bin to belt going to Bijou. The corner X caused a build, C remained stationary and D kept flowing, the ore backing up considerably and reducing capacity very much. Dotted line shows remedy. The mouth had to be widened from 10 inches to 16 inches. It will be difficult to say how many tons of ore you can fast your blowers per hour, your stuff will have no course in it and you should have Ballentine determine the actual amount on our Laboratory blower. This fine ore with no course will also act different. We prevent to a great extent segregation in Bijou by spouts we have just put in. We use 4 spouts, dividing the ore into four parts as it comes off the belt. It is quite essential to use these distributing spouts in crude stock house for drying and also for the purpose of preventing the 3 Highs running on fines at times and then entirely on coarse.

We are having trouble with segregating in coal stock house, wet fine coal in center of cone will not run out at all.

Yours truly,







Oct. 6, 1902,



Letter No. 11.

Wm. Simpkin, Esq.,

London, England.

Dear Sir:

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M. 4.3

24 inch belt as return from Dryer to Rolls will be ample. The chute should spread returns on belt fairly well so picker can see bolts, etc. Regarding Chutes. They are by far the most serious thing we have had to contend with here, so better send detail of all chutes to me. The Distributor on top of dryer is an enormously important detail and ours here should be exact copies without the slightest change. I have not gone over your dryer shaker details as Herter is now well and we have finished the giant roll drawings which I will describe further on. The giant roll plates should be chilled a full one and one quarter inch.

All our chutes in rock stock house were too near the belt, could'nt get but 125 tons per hour as the ore from one blocked the others, men have been in there several days cutting them off, now five inches from belt. It takes 3 hours to take a motor out of the tunnel on account of no room. Twelve feet wide with a 36° belt in the center is none too wide to clean out drip and get at things, One thing you should allow for with excessive liberality where one belt dumps to another at a place depressed into the ground. On your general plans which arrived here this week, I see there are several such places. The drip and also the removal of motors, etc. is a serious thing at times where delay is great from want of room.

#2 W. S.

B.T.

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Regarding the drip from belts: There are a number of places here where it is impossible to get even a hee under to clean out the drip at head pulley, for instance, the dump of conveyor bringing returns back to chalk 3 High there is no space and we are compelled to keep two men there to keep belt free until we can change it, also there is no room to work in and altogether its a horrible proposition. The leakage down into the room below was so great that one could'int see five feet. We were compelled to use a hormetically sealed floor since which the 3 High floor has scarcely any dust.

Don't use any iron set in the brick work of air vent or fire doors at Dryer furnace use brick arch, also the doors should be faced with fire brick so that no iron is exposed to radiation or flame. We have a fire door with brick around most of the face exposed but the iron exposed is melted. The square casting set in brick work for the air vent above fire door has all melted.

I think you better send your redesign of mill motors which will be suployed. We have found a lot about notors. The oiling, bruahes, orossing of armature and fields, stability of base, etc. We have a fan on armature to internally circulate air within the chamber to a success. Do not attempt to use the end of the motor shaft for a fan, that is a failure, use the regular desk fan and secure it firmly at the opening in gunny. We have changed our gunny chambers considerably. There is a very decided relation between the square feet of gunny and the horse power of the motor. We can give you this when you are ready. There must be no leaks into the chamber except through the gunny itself.

I think you better send drawing of the removeable baffle plates of the blowers so one can be made and actually tried by

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Ballentine on Horway ore in the Laboratory dust blower to get it right and obtain proper data as to speed, fans and feed per hour.

I spoke in a former latter about the great trouble we have had with the chute under the 3 High chalk. Well we have had to make another change it would block up. We make the chute the full width of the inside of the housing, run it down straight it delivers ore at right angles to belt but the ore strikes the opposite side of chute before it reaches belt and dont scatter fig. one there are wooden extensions to keep ore scattering.

Did you know of the serious mistake momebody made in the chute from the highest elevator down to the acreons in the clinker grinding plant, well the angle is 45 all right but its side angle is only 26 degrees and nothing will go through it and we hav'nt the hisight of the elevator to correct it. I have sometimes thought that I would like to take the man who made that chute boil him in oil and ham him in hell to dry. I am going to get 600 tons an hour down there somethow but just how I do not know except to raise the elevator, all of which shows how dead easy it is to design a crushing plant.

How for the Giants. 1st. Make the plates of equal length. They can then be exchanged so that the ends which gets no wear can be shoved to the middle and thus double wear got out of them. The wear is mostly in the middle. The holes in the mandril should be laid out very ascurately, otherwise there will be great trouble to exchange plates. I have had Herter lay out a sketch to explain matters. Make the mandrills solid dont core out anything where you have shown it. Use only four sections, face only the outer edge

#4 W. S.

of mandrill sections. Have changed the sections of the shaft  $\alpha$  . little from your sketch. Notice the coupling.

That side extension on big girder better he made separate and of steel. The wooden coparators should be split as shown so we can wake changes if found necessary without necessity pulling out long bolts. The washers on long bolts abould be white pine at first to ascertain if they crush. The hardest kind of white Quartitie will crush the pine and if they crush use maple. It will give us an idea how hard the rock is.

Dont use thrust collars at both ends of a roll. The fitting is difficult and if anything moves to separate housing etc. there is trouble. Use thrust only at one end, then there is no trouble, you have flexibility. The thrusts on the giants are particularly terrible at times. The thrust should be so the Babbit shell can be removed quickly without having to bother too much with thrust devices. The sketch sent will illustrate the thrust bearing which is O. K. I have also shown the flap at the end of shaft so ones hand can be inserted to feel the shaft. There is a little ledge over top of it to keep dust off. You will notice I have diminished the babbit in the recesses, also added recesses up nearly to the end as we had trouble here from babbit spinning loose. I think you petter, not put in the recesses in housings B 123 why not make them plain face. Better make the guiding key of housing and girder reversed have the key on the girder and the recess in the housing and the coase width to five inches. In taking out a shell use a block, the outer surface which is the same diameter as shell and bored same size as shaft, then when you are drawing out shell keep shoving in the block, the shaft will then rest on the block when shell is en-

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tirely removed. The 'Lock you might say is the lower half of a split bearing, I think if it is 10 inches long it will be sufficient.

You should use the oil screen cup we use on the giants. Its O. K. with the change we made notwithstanding that we are to use a wiped lead joint in the iron pipe system things will get in the oil and its a very serious thing to have oil ducts stopped in a giant roll, they are not easily handeled and the whole plant and mine shuts down until they go, hence we should use everything that will insure continuous operation. There are so many miserable little things that out half the time off from a days run. The shells should go in rather sung and therefore sometimes rust or stick budly go I think the bolts drawing them out should be increased from one inch to 1,1/2 to 1,3/4 inches. You will notice I have increased the number of recesses to hold the babbit. There is a tendency to spin the babbit between the recesses.

Regarding the babbit, I think you better use the babbit we aged on giants at Edison. It was the third kind we tried and it worked O. K. it was special for the giant only. Recess of Philadelphia made it. I can send a bar and you can have it analysed and made over there if desireable. Its a mean babbit to pour and must be done just so. We had so much trouble with it that we sent the shells to Reeves finally and had them babbited, but I guess you can get it done there all right. Look out and do not bore out all the peined part as to then is spongy.

Stuffing Rox B. 124. Put extension on and counterbore into housing. He sure and make a good fillet in the keyway where plates go. The thrust on the plates are tremendous.

#6 W. S.

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Use eight bolts to such plate. Separate the plates in the middle half an inch, this will give margin for custing. If there is any doubt you can sake it 3/4, using eight bolts gives wider and better teeth. Carry the boss on outer and inner edges of plates clear accross, this will strengthen them and will be good when plates are shifted.

Regarding Bolts B. 135. Why not make the 126 lot exactly the same, and the 18 lot the same then you will only have two lots of bolts. Its important that the manufacturers follow your drawings as to this fillet on holts. Our men twisted them off repeatedly even with a fillet until we out their 5 ft. wrench off to 5 ft. Is there enough depth in hols to mandril to top good with the length of bolt shown. You remember that tall inspector who inspected giants and 36 Rolls. He was a lobster, he passed a lot of very bad work on the rolls from which we are now suffering and had to change. Good inspectors will be very important for you.

The depth of the slot in Bolts on B. 135 should be greater, three quarters of an inch deep. The tooth of the wrench wider at the end than at shank then it will not core out and seaster the jack tars on the wimiless. Dont core the holes in the foot of the girder B 121. Eathort the holes after they are in place. The sheet steel look of the bolts holding plates on in 135 B, should be of such a width that their tops do not core flush with the bolt head, then the slot in the bolt head can be slightly/over and thus prevent the look. Page of these owns.

I want to call your attention to a new point about couplings

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of shafts. On the Chall: 3 High we have been troubled with heating of the bearing next engine house on the driving rell. It is caused by the fact that the big bolted coupling connecting the drive shaft with the 3 High shaft was not solidly secured to the small shaft and the side vibrations due to concussions putied the coupling 1/6 inch towards the 3 High, then there was a big thrust against the thrust collar in small shaft bearing consequently heating. These couplings must be absolutely secured so they can not move endwise on the shart, we have rivited ours. I think there should be a recess and belted plate or forced on through, I am not sure these concussions would'nt move a forced on coupling.

Neither Herter or myself quite understands the starting device for glanta, something of that kind would be good. Another point, the conveyor under the 3 Highs (Ghalk) going to blower house has its mead pulley, motor, etc. up in that trusses, the bracing and stability is very had and the jar and swaying is quite serious. We are now getting ready to do a lot of bracing. As your cohrevors are in the trusses and as some long conveyors with heavy gravity pulls we also end in the trusses. You should have these stresses provided for by good bracing. There is not only side motions but up and down motions.

Have a good finish on the shaft of giant where it is bearing surface.

Yours truly,

#2 W. S.

Letter Vm. Sin

Lo Dear Si

suggest of chan some ver been mi revised suggest

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bearings
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then I

Fritz no print do have to

outside out door and well directic Letter #16

March 30, 1903.

Wm. Simpkin, Esq., London, England.

Dear Sir:

I have gone all over the 6 record books of cement runs and have got things pretty well worked out. I will send results of whole when I go north but thought I would send you briefly some conclusions.

- Should be covered closed shed for say 40 cars in winter with enough steam coils keep ore from freezing in cars, also Journal oil from getting solid.
- (2) Steam pipes resting against hopper under Giants to give heat to iron of hopper to prevent ore freezing and blocking hopper.
- (3) Pinion and large gear into which pinion meanes are altogether too narrow; that has been one of the troubles on our conveyors which were heavily loaded, for instance 104. Top mixing bolt, stress at circumference of 48 head drive pulley 1500 lbs., stress (allowing 80% efficiency for gears) on pinion about 1000 lbs. while the gear and pinion is more than ample for strength, the pressure per square inch is altogether too high even if gears were on dead pitch line but they never stay there and on a 25 H. P. conveyor I think length of pinion should be atleast 10 inches, not for strength but for diminution of pressure and there should be good oil casing. The large gear into which minion meanes can be quite light. On your 50 H. P. conveyors pinion should be impressed still further. These

W. S. #14.

conveyors with heavy pull out ... large pulley is a peculiar combination with a train and motor, no platon must be abnormal,

- (4) Look/for heavy width gear on shaft of Roller feeds.
- (5) Look out for excessive pressure per square inch on all pinions.
- (6) 3 High Ropes. We are going to turn down couplings between 3 High and pulley drive to insert an inch plate. This jointly, having a rope always spliced and ready and the plate being taken out, rope can be got in. Four bolts in coupler will be enough as more cause delay.
- (7) Twice the number of side guide idlers wanted on bottom of conveyor dalts, also these idlers ought to be two inches longer.
  (8) Fready and I have made several flexible couplers for motors

at our little Laboratory. I have one now that is perfect; will send you drawings from Cement Works.

(9) You remember we had a sprocket wheel on 3 Highs to drive roller feed. We are going to utilize this to expidite putting in ahear pins from which a great loss of time is had. 5 or 6 ft. away we gut a worm wheel on shaft of which is a sprocket, by a pin in chain we connect quickly and by hand crank bring roll around so shear pin holes match. You will have to have something like this and this is simple.

(10) Do not fail to have the blocks connecting top and bottom of housing of 3 High etrong and rigid. The trouble we are having with our pulley drive bearings is due to the shook shifting of bearings in housing of drivon roll., not a permanent movement so as to put shaft out of line but a concussive springing and this is transmitted to pulley shaft.

(11) Stud bolts locked by small wire running though heads where bolts are around a circle is not sufficient; the wire bends by constant shock. Aither a larger wire or something else for locking

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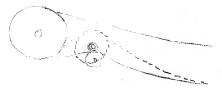
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on concussive machinery is recersary, oil joints, etc. soon leak.
(12) Bolts with nuts and cotters on Rolls do not look except use
R. R. Car cotter with slot and cotter taper so it is driven in dead
against head of nut and bent.

(13) What size (ie.) diameter and length pinions you going to use on Motore driving 3 Highs and other rolls. Remember shear of pins more than doubles pressure. Be sure have plenty dops in easing and put in a plug so oil man can tell when he has proper amount of oil in all oil casing. Thats something we did'nt have at dement, consequently lots of our gears run dry and out bad, especially where pressure per square inch on teeth was high.

(14) On conveyor belts greater arc of contact on head drive pulleys are more efficient for bite or adhesion that longer slack we put on Idler thus:



The idler was ordinary diameter with heavier shaft and larger idler bearings. This did the business but the idler bearings gave lots of trouble. Make yours as in dotted lines and closer up to pulley to increase the arc of contact and bits, use say 5 inch shaft and regular self ciling chain bearing well sedured on ways use 24 inch

W. S. #4.

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or more wheel. With  $25\ \mathrm{ft}$ , slack this should not slip on heavy loads.

(15) You can not make Gunry chambers too large, the floor should be double with thin sheet iron between the two floors. Ditto on top of chamber. Around bottom use wood, run about 10 or 12 inches high and stiff, to this the gunny can be secured. Cracks in floor at cement were cause of great trouble, also repairing of gunny at floor line as dirt collected at bottom outside and bulged gunny in. The board around bottom will stop this. Use stiff framing. The door we used was a failure. It was not self closing. The joint was no good, be sure and get a lap door always good and tight and powerfully self atting closing. Hand fan should be special (ie.) capable of running continuously without heating. The supply of oil and oiling devices should be good. The connections should have one pole of a different kind of clamp than the other so men can only connect fan to run in the right direction. The fan should be made so it can only be put on shaft one way and pined or secured so can by no possible means come off, also fan blades themselves all rivited, no screws. The whole fan should be clamped to pedestal, and balanced. Berguann could make these. Have about 16 inch fan. If it is possible keep flexible coupling within gunny chamber.

(16) The shearing device on 3 Highs gets loose and shears, look out for this.

(17) Motors running small air compressor without a high speed fly wheel are a failure. At highest point of compression the amperes run up enormously. We are going to use pinion in two bearings and on one end pinion shaft put a fly wheel with ahear pins, as this is high speed it need not be of large weight. With motor flexibly connected we hope to keep amperes reasonably even. Use the unloading

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pressure device otherwise burn out motor.

(18) The width of Commutators on Bergmann motors are insufficient. They are narrowed to cheapen. It would be netter to increase them fifty per cent, by employing say a 25 H. P. commutator on a 15 H. P. motor and so on. His broad rigging is a complete failure where there is concuscive jars. And can Street car device best. There is nor reason why motors driving gearing thould not be fixed down once for all on base without a lot of adjustable things only required for belt driving. We had lots thouble with base bolts shaking loose. Remember this as a fact that the ordinary man does not set pinions on pitch line where the construction  $\mathbb{R}^{\ell}$  'mits of adjustment not one motor pinion in ten were set right at cement, they were either not on pitch line or one edge did all the work, in are, for the motor moved because bolts got loose. In my opinion all of the gearing should be framed together by cast iron assembled in the makers factory and doweled. Then the vibrating structure of the Mill would not be serious, otherwise there is bound to be continuous and never ending trouble.

(19) Raw hide washers on idlers are not the thing. They shrink. I

(80) Could you have stayed longer I would have outlined the electrical scheme for operating plant (ie.) starting, stopping, etc., but when you are ready will write out whole scheme.

(21) Do not use any glass sights in motor bearings, they break from the jar. They can be a looked overflow plug. The oil system management we will establish will heavy plenty oil in. Don't forget that long heavy thains are a necessity, also that one of the worst troubles we have on motors is that the oil follows the shaft through out the wool and throws/on commutator, etc. Its bad for commutator and

and had from losg of oil, as it makes it difficult for oil management to mow when to fill. If this is stopped then it will be easy because then after a certain time all oil is withdrawn to be filtered and fresh oil put in and this would only be a question of date.

(22) Keep in mind when arranging meter and gunny cheater that sometimes the motor must be removed or the armature removed in case of cross or burn out and want room to get out of chamber without tearing it down as at coment and also way to get motor in and out building as it takes Sunday and all Sunday night to remove one under Rock Stock house. Were this part of the running mill it would be very serious.

- (23) The springing and bending of the fan shafts in blower house because shaft too small is serious. Four inches is not too small diameter.
- (24) More anon. Dont fail send design of bricking furnace with marked dimensions so men can work from drawings.

Yours truly,

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Apr. 17, 1903.

Dunderland Iron Ore Co., London, England. Dear Sirs:

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As a matter of record I beg to confirm the following cable sent to Mr. Dick this day. "Dick, Dioresia, London. Remember not single complete and final drawing Dundorland received or approved by me. Has anything been ordered? If so warn company of danger. Signed & dison."

Yours truly,

Apr. 17, 1903.

H. E. Dick, Esq., London, England. Dear Sir:

As per instructions from Mr. Edison I beg to confirm following cable sent you this day. "Diok, Dioresis, London. Remember not single complete and final drawing Dunderland receives or approved by me. Has snything been ordered? If so warn company of danger. Signed Edison."

Yours truly,

Ochnowled in 1903

Letter No. 17.

Wm. Simpkin, Esq., London, England.

Dear Sir:

I am preparing for you full inspectors report and other records. Hope to send you soon as well as other things I have found wrong when taken apart. Will send as soon as ready. Several very bad things have developed which I did not know of and which is going to be very merious for us financially.

And. The space for motors was so small that gunny chambers were no good, as they coulint be made any larger than the motors, result was that they worked in thick dust. The dust burnt in Commutators and the later are worn out and motors wrecked. There was such a terrible congestion and lack of any space that nothing could be practically done to save them. I am compelled to use a sprocket and put motors between roller feed and blowers, this permits all the motors being in one long continuous gunny chamber with side door so motor can be removed and taken between the dust bins and around the back of same.

by me. Signed E

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Dear Sir

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H. E. Di Lo Dear Sir

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#2 W. S.

3rd. All the pinions and of course all the gears of drives on Conveyors are too small. They are ample for strength but the pressure per square inch is such that the heavy loaded conveyors have teeth worn one third the way through, consequently the vibration got so great that towards end of run the brushes could not be kept in the Commutator. The jumping of the brushes produce sparks and these heated commutator so that the maximum capacity of the 25 H.F. motors got reduced to twelve and then they had shut parts mill down to coal. On top of Rock Stock House the shaking of the structure was terrible and they had got out plans to belt down to a motor at the earth. I put in wider gears with pinion between bearings, put in new flexible couplings and we have been running mixing belt for several days. The motor is loaded to full capacity, it has neither spark or jar and the structure only receives a small jar from the wear on the other pinion and this would go out if it had been wider.

How long before you will send me drawings so I can put on the final O. K. Hav'nt received a single one that is final as yet. Are you sure that you have enough men in your draughting department, I fear you are going to get into a hole before long. It may be possible that the motors on the 3 High and Grushing plant rolls will need flexibles between gearing and shafting to prevent sharp vibration waves dancing the brushes. We have tried several flexibles on our smaller motors and have one that works perfect. It works so perfect we are making one for the third 36 inch Roll.0n motors it is made thus:

Letter

Wm. Simp

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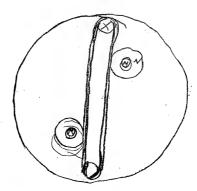
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Sixteen diameter, inch quarter pin "X". Wheel "N" is two half inches. Pin "N" inch quarter. The belt is double and stretched all around edges by harness maker, the width on 25 H. P. is two and half inches. The disks are turned all over and balanced. When shafts out of true the wheels run up and down belt and hence, the easier they run up and down the less does the vibration wave go to motor; with the one now generally used there is considerable vibration transmitted and it is very unsatisfactory. The following is generally used in this country. It does not slide easy enough.

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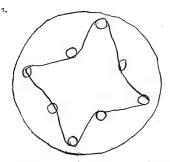
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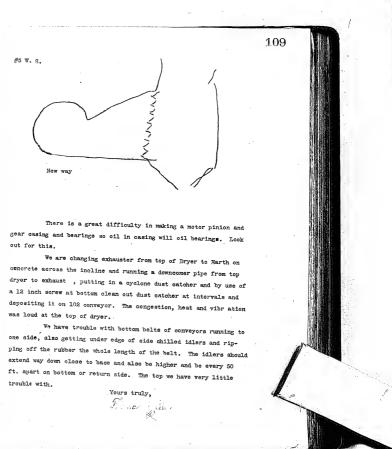


I have Earnes here experimenting on gunny chambers and we will soon be ready to give you full data.

Could you arrange blowers so there is a greater height for baffle plates; it would greatly improve them.

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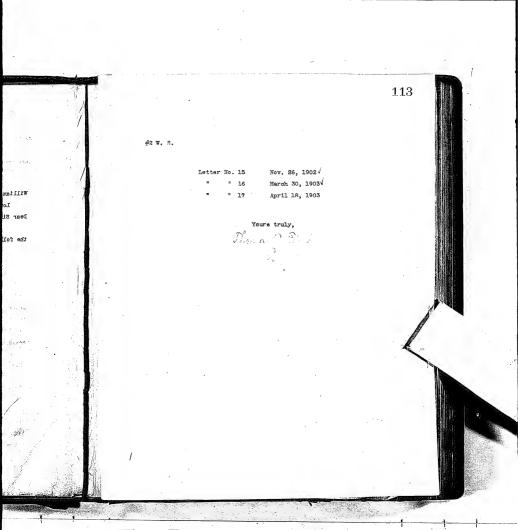
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" Coloration and 10. 1902

May 11, 1903.

Dunderland Iron Ore Co.,

Fitzlan House, Arundel St., London, W. C., England.

Dear Sirs:

Letter #

London

William Sim

Dear Str:

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I have received complete drawings for the fine crushing rolls of the Dunderland Mill and approve of the same if alterations are made as to foundation and other details as per memorandum below. These alterations are the results of actual experience obtained on the same character of rolls at the Cement plant. Please acknowledge receipt of this letter. I would like the final drawings with alterations made for filing away for future reference.

## MEMORATIDUM

3-187. There should not be more than one eighth of an inch between the plates, one quarter of an inch is too much. The edges of the plates, that is the last corrugation will cause edge to chip off, sometimes this chip will be several inches long and one to one and a half inch deep. We leave off the corrugation at the edge so the ore can not get hold of it to break the edge Thus:

#2 D. I. O. Co.

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9-187.

B-180. Tap bolts all shake loose, the wire does not look them, it merely prevents screw from being lost. The only way to look them is by fitting sheet iron links from head to head and then use the wire. Thus:



Regarding the nuts on bolts the same objection to the wire holds. The millions of tharp concussions received daily shakes every nut loose. Instead of a hole put in a slot extending down under head of nut, and drive a taper sheet cotter in and bend over. The taper should not be too great and the thickness of the steel considerable. This is quite a little job which can be done on final assembling, but is is essential.

The oil xx drain at bottom should only have a pipe long enough to fasten the rubber pipe to, and the same should be locked. The long pipe breaks by momentum. B-181. is all right.

B-182. Putting thrust collaron both ends necessitates precautions against canting of rolls which will produce a pinch. The precautions are that the ore shall be fed to the rolls evenly and that no seggrégation of the ore take place, that is to say that coarse ore will not go down the chute to rolls on one side and fine ore on the other. Otherwise 182 is all right.

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B-180. Ta
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B-183. All right except looking with slot and taper cotter, which applies to the whole roll, except perhaps the large housing bolts at end which may be locked in another manner.

B-184. I am doubtful if we do not still need the key across the ways to hold the fixed shaft bearings in place, if it gets out of line with drive shaft there will be trouble. The concussion will strain tapped bolts and draw the reamed bolts. We have roll plate bolts on regular rolls drawn so much that we could'nt get them out. It is almost incredible but nevertheless true.

B-253. I have never yet used in a roll anything but a hammered iron shaft, and this under the advice of John Pritz of the Bethlehem
Steel Co., I therefore advise hammered iron shafts, not that mild
steel is not strong enough usually but on account of gradual crystalization under powerful and exceedingly minute concussive strains.

Coupling on/shaft will alip no matter if it forced on. There should be a countersunk plate and bolts. We have had serious trouble with ours here and even after riviting it has started the riviting. It is difficult to see where this thrust comes from but it is there and is very powerful. Otherwise 3-263 O. K.

B-254. All right. Look out for warping after finishing. Our ways here sprung one sixteenth of an inch, so roll had to be dismantled and replaned to prevent bearings pinching on the ways.

B-255 all right.

B-256 all right.

#4 D. I. O. Co.

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B-257. Greeves after machining should be polished.

Note. The standard outside the roll for internal ciling through long shaft should not be put on board floor but on steel/or foundations to prevent jar.

B-258. The shaft cover plate will leak oil without lead or other packing.

B-259 all right.

B-260 all right.

B-261 all right.

B-262. Flexible coupling to motor.

B-263. Must be a good job or it will be sure to leak. We used drawing paper in joints.

3-264. We had to increase diameter of shear bush to two inches as concussions hawmered the socket oblong when we had a smaller diameter and steel will be worse as it can flow. Should advise two inches as minimum with perfect fit. It is extremely essential. If you want to get a high average run each day that the shearing device should be made by the best tool maker obtainable, that the bushes should not be tempered too soft so edges will get rounded or too hard so they will crumble and the faces of the shear bushes should be perfectly flush with the plate and come perfectly together so that a perfect shearing device is had, than there will be no trouble.

#5 D. I. O. Co.

Are you satisfied that you have room enough between gear casing and shear to get the stub sheared bolt out easily. My experience is that the workman never realize how good a job this shear device must be and we then as a rule have to make it all over again.

The taper pin to bring shear plates together has proved a failure here, gets all battered up and on two occasions men forgot to take the pin out. We use a mark.

The shear pin clamp has also proved bad, the sharp edge of the slot causes it to act as a pipe tap. We have rounded the edges of slot but it is not ideal.

Regarding the gears. The strength is all right but the pressure is very heavy for a 200 H. P. rate the pressure is 2100 pounds for driving and double this for shearing. It is not a question of strength so much as wearing surfaces. If gears were theoretically perfect and we always got rolling friction, etc. it might be all right, but we do not get it. The speed and pressures here are very great and the wear will be proportionally great; another thing is that we have cast gears. The gears should have a minimum face of not less than sixteen inches and I believe eighteen inches would be much better. They may look strange but that is no reason they should not be used. The gear body could even be lightened, because its not a question of strength so much as wearing surface. On the spring rolls only a small part of the work or stress goes through the gears. Both rolls are practically driven direct through the medium of the ore. The gears preventing slip and consequently wear on the plates, and in the case of the regular rolls without springs, the gears do not transmit one quarter of the stress besides require very much less power, but on the fine grinding rolls the whole of a great power goes wholly through the gears, hence the gears should

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be all out of proportion to the gears above mentioned. You can make no mistake by using an 18 inch gear and in my opinion make a serious one by using 12 inch.

The jar of these gears makes it absolutely imperative that a flexible be interpolated between the motor and the drive, otherwise the jump of the brushes and sparking will be prohibitory.

B-265. I recommend the use of a regular engine piston and snap rings. The relief hole at tail end should be reduced to half inch. Provide a steam pipe in contact with cylinder to prevent freezing in the winter.

B-266 &267. It is very desirable that ropes already spliced shall be in readiness, it is difficult for men to splice in mill and desirable that it be done outside and brought in, with the tightener rigging it will be difficult to do it without you make a change there. The position of your tightener does not permit of a clear separate room but I suppose you contemplate making the room so the air cylinders will be in motor room and the ways in roll room. It will not do to have ropes run into motor room unprotected, as the air movement due to moving rope brings in lots of dust. You can not be too particular with this partition to keep out dust.

We use matched pine, then cover with ten cent canvass and paint the canvass. Will not your rope strike foundation when starting up?

B-169. All right.

B-196. All right.

#7 D. I. O. Co.

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C-ll6. These rolls should be made solid. There is nothing gained by hollowing out and there is a real danger from chipping off edge for the reason that sometimes the rolls will cant.

C-139 - C-140. Is decidedly objectionable. The concussive throw of the housing will not be less than one sixteenth of an inch and sometimes more. The gear bearings would not work at all. You should have cast iron girders atleast thirty six inches wide, well ribbed up in direction of throw and about two feet deep at the foundation, and somewhat bellied in middle. Have a foot on the girder where it rests on the foundation, say four feet wide and well secured by holts to a very massive foundation. The greater the mass the better. If this is done the housing throw may be reduced down perhaps to one sixty fourth of an inch and your gear bearings will work all right. No one can realize what these throws are until he sees the rolls doing work.

C-141 . All right.

C+142. All right, except as to width.

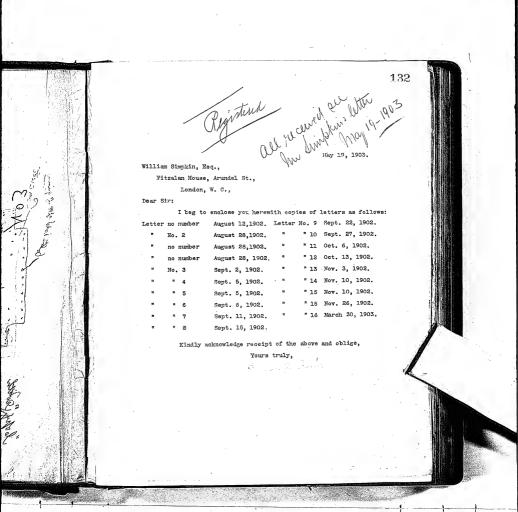
C-143. Forced coupling uncertain advise recessed plate and bolts. Motor shaft have flexible.

C-144. All right.

R-175. All right, except that you may have trouble in getting out plate bolts. Mandril will move. I advise pining in addition,

B-186. All right.

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Copy.

Yanadon, W. C., 30c. J. 1995

Mr. Thomas A. Edison, Orango, New Jorsey, U. S. A. whead on potent of Pagnets.

Dear Mr. Edison,

As you are aware, no patents have been taken out by you

on the particular form of construction &c., of the <u>variettice</u> magnets. Now that Mr. Ballentine is with us we have been talking the matter over very carefully with our Patent Agent, who is of opinion that we can make certain claims on the magnetite magnets sufficient to form a patent specification. In the circusstances we have thought it advisable to go shead in the matter, and as soon as the patent claims are reduced to Specification form we propose filing then in England and abroad. This, of course, is entirely subject to your approval, but it seems that we cannot possibly do any harm by endeavoring to strongthen our position as regards the patents of our magnets, especially in Norway, and we think that you will acquiesce in this yiew. The Secretary will be writing you an official letter putting the weather in order, as, of course, your sanction is required before

Hoping you are in hest health.

Yours truly,

Edison ore Hilling Syndicate, Limited

F. H. Polien,

"anaging Director.

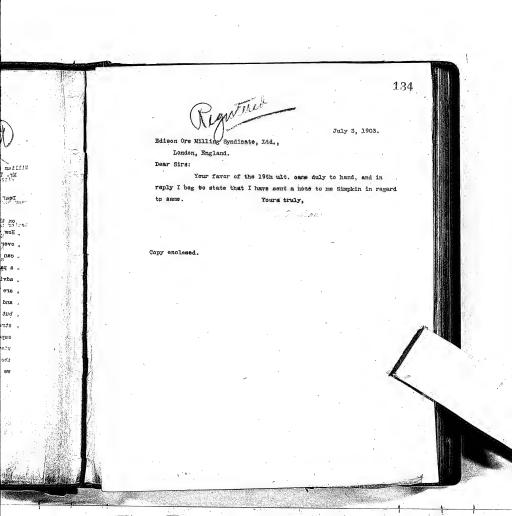
William S

Dear Str.

Letter no

" no

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Oct. 12, 1903.

Registered Menowland 3. Ediso Letter No. 21. Dear

William Simpkin, Esq.,

London, England. Dear Sir:

The following is my notes on drawings sent by you. C.)105 O. K.

C.-106 O. K.

C.-114 O. E.

C.-131 O. K.

Copy

B.-121 O. K.

B.-122 O. K.

B.-123 O. k.

B.-124 O. K.

B.-125 C. K.

B.-131 0. K.

B.-132 O. K.

B.-135 O. K.

B.-134 P. K.

B.-135 O. K.

B.153 O. K.

B.-162 G. K.

B.-216 O. K.

015. This hydraulic may be too light.

B.342. Think this flooring too weak. All the big pieces are lifted

#2 W. S.

up on the teeth and top of dipper and dropped into the skips, sometimes they drop 5 ft. or more. Pieces weighing 10 to 15 tens do not give a gentle tap. The strain due to impost is terrible and it takes strong cars to stand it. We had at Edison, cars with outside stringers, 6 x 10, inside 4 x 12, the top was the sense. Concent Co's. car is stronger, both are entirely too weak for 6 ton skips, therefore you can judge what B.-342 will be. Our axles are 3,1/2 and are entirely too light and you will have twice the load and four times the stress from impact, due to dropping big chunks from the dipper top. Dont forget the extra pieces of timber an top of car above the regular floor to guide the skip on each side of it. Rear end of skip wants six one inch holes to per it water to run out. Otherwise skip 0, K.

c.-135. O. K. All bolts on the cheek will get loose if not perfectly cottered close to nut.

C.-136. Hopper door should have plate inside to keep mud from coming on joint, see aketch Ho. 1, a Sherwise O. K.

C.137. By impression is that on the first five foot rell, I advised steel meanings for hopper, as the dumks are large and the pounding in ter 151:. The roll throws are hands out of dead line. You better stiffen. The other five foot rolls will be O. K. in this respect, except that your wear plates will have to be renewed often among the mound contemplate the placing of the wrought iron with child at hors.

C.-148, O. K.

B. -267. What kind of a rigging are you going to use to permit one man to raise roll doors. We use hand windlass and ratchet; this makes it -48/ for inspecting plates, which should be twice a week.

Letter 1 William Lon

Dear Sir

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C.-114 C

B.-121

3.-122 C

B.-123 C

B.-125

B.-131

B.-132

B.-134

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B.-269. Is the arrangement on the first five roll for removing hopper heaty enough? I think dirt will get in and disturb your trolley. Don't you think it should be covered.

There will be a lot of spill of ore from open place under the shaft, I can not say if Dunderland ore will give enough to be a serious trouble, but you better be prepared for trouble. I also think that on the first five foot rolls, that the bottom edges of the hopper undermeath rolls, having no support will be pounded out of shape the first days run. Cant you manage to strengthen the edges, the more he better.

B. 270. I think hopper under 3rd 5 ft. is rather unstable, as you have two chutes hung to it, one to the 4th set, the other to the 5th set. You will certainly have trouble here:

B. 289. The bottom of this hopper is not backed up enough. At Edigen under our four foot rolls we had one inch plate backed up by three fact of solid timber and it bent it so bad after one months run, that ore would'nt run out of hopper, the cavity filled and made a non slipping surface. We kept things going by renewing plates. Now this was not under Giants. The Giants at Coment are smaller than at Mison and have smaller chunks, yet we have a thick steel casting for bottom. With your Giant the chunks will be very much larger than at Edison and owing to the greater weight of the ore from high quality and the great fall of 26 feet, the great speed, due to the combined effect the roll and gravity the concussions will be gigantic, over an area of 2 or 3 ft. from the center line and the backing you have would last no time at all. On the other hand if the mill manarguent is well drilled and taught that the hopper must never be run so empty, that the ore will strike the steel plate but always the ore you will have no trouble. It is for you to judge if they can be

#4 W. S.

trusted to do this. Something is wrong with the agitating roll of the roller feed mechanism. Can not understand it, seems to be down too far, cant understand big gap above roll, please send more details of the roller feed, as this is very important to have this just right, otherwise you will have bridging of ore in the hopper and this is fatal to your daily capacity being kept up. I want details also of spur gear and drive. The hopper chute above roller feed and in which agitating roll is, seems to be unstably secured. How can men get in with crows to break up an ore arch should it occur, as it does often.

B.-290. See 289 B.

B.-291. Ditto.

B.292. Think there should be a removable wear plate on sides of roller feed as the wear here is very considerable and it will be expensive to throw away the whole side because a small section is worn, chilled iron would be the thing.

B.293. See notes on 289 B.

B.291. " " on 289 B.

B. 293 See previous notes.

B. 297. Ditto.

D. 299. The wear on the dute from roller feed to 1st. 5 ft. roll will be very great at the point where it starts to narrow and all the way along the incline. The wear will be so severe that nothing but chilled iron will be satisfactory.

. B. 300. See previous remarks.

B. 301.

B. 304. See remarks B. 269.

B. 305, O. K.

#3 W. S. B.-269. hopper h

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#5 W. S.

B. 306. See remarks on B. 269

I fear that Dunderland ore will soon out out all the chutes, and so rapidly that you must contemplate renewing the wrought from plates with chilled plates, even the chalk is cutting the bottom out of our chutes at cement Works where ore goes from S. dumps to the blowers and we are getting ready to replace by chilled plates. See sketch No. 2. If this is true of a trifling amount of a soft material, what will it be with heavy loads of cutting ore or heavy specific gravity as with Dunderland.

B. 307. See 306.

B.308. Think east iron cheek plates are not strong enough on last 5 ft. rolls. There is a prying action of the big chunks between rolls and cheek plates, which will break almost anything except thick steel castings. You will note that in all myremarks that I fear your hopper arrangement on this roll, I am sure that it will not stand up.

B. 310. Cheek may stand the Racket but there will be no margin for safety. I do not like the unstability of securing the cheek plate, the hopper on trolley is not very stable thing to fasten it to. Pieces of ore get between tits of roll and the cheek plate and the cheek plate sometimes has to act as a crushing surface. You can imagine what strain it will be subjected to. Our chilled plates were always breaking on 36 inch rolls. They are breaking at Cement as well as wear.

B. 311. 0. K.

B. 312. Shelf too light. The edge will wear rapidly. Where ore drops off shelf to chute below, it will wear about 1/8 of an inch per day, nothing but the deepest chillediron wear plate, chilled deep will stand and this should be made easily renemable. Look out for

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B.-291. B.-291.

roller expensi worn, c

9,293. 3,291.

E. 299.

3. 300

B. 504 B. 504 B. 205 #6. W. S.

expense.

turning corners and dropping ore continuously on one spot, no one can realize its effect when enormous quantities are handled.

B. 313. See 312 B. Gate alides of this kind never work, ore gets in and sledge harmers will not budge them. They work on coal because you can ornah that, as the space above the pushed in gate will fill up with ore, there will be about 5/4 of a ton pressing on the gate and sometimes the gate must be moved quick. There is a wedging

gate and sometimes the gate must be moved quick. There is a wedgit action of the ore on gate at the alot, due to pressure and pieces dig in plate and lock it, then comes the sledge hammer. Something like Fig. 3 will have to be used; this is used at Cement Works on 3rd 36 Roll chute.

B. 314. Can't tell how this delivery will work without section at tail pulley of belt is sent; its a ticklish operation to deliver 400 tons an hour on a belt and requires a great amount of experience. This branch of the business should be fully detailed and submitted for criticism or it will cause a great amount of delay, trouble and

B. 316. I do not approve of the hopper on the giants at all. It should be made of steel castings, like on the Giant at Cement Works, but twice as heavy. In my opinion the hopper shown would not last for one days crushing. At Edison we had hopper 2,1/2 inch steel castings and ribbed every 12 inches with ribs 2,1/2 thick and 6 deep. The thrust on the end plates of the hopper was taken on the side plates and not on the bolts but at Cement works the thrust of end plates are taken on the 1,1/2 inch bolts and they are constantly breaking. Your concussions will be 3 or 4 times what we had at Edison. Chilled plates would not stend at all and cant be used; the chilled plates are going to be put in, I cant see how you are joing to take them out without taking the hopper to pieces. There is no bracings

#6 W. B, 306 I fear

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No. 2. What W

B.307

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#7. W. S.

to hold hopper latterly, except at foot, and against beams. You know we have four rods 5 inches diameter at Gement Works. You have nt got the roller feed above giants right, a six foot chunk will give a trajectory landing it on top of the roll and end of hopper, which is very bad. I explained this once before to you. The mill at Edison was shut down 3 weeks and we lost about tenthousand dollars because we didnt have this right. If mistakes are made on giant, it will delay the starting of the mill for months and the cost would be enormous for general expenses, to say nothing as to the cost of any specific change. Your feed roll is too far in. There is so much wrong about these rolls that you better redesign the hopper and lay out, following the experience gained at Edison and Cement and send corrected drawing, and in this connection stick to old John Fritz's rule of "making lots of mistakes in getting everything too heavy". Remember static loads and concussive loads are fearfully and wonderfully different as I know to my sorrow. There is nothing on the drawings showing which roll is to have the slugger plates. They should be on roll farthest away from roller feed. Leave off the extension of the hopper above the top of the roller feed, then when ready to run, a shield only about 2,1/2 high and partly around can be put on, as its only to guard man cleaning skips and roller feed from being hit by stray rocks. At Cement our steel casting comes up level with the top of the roller feed. You have hopper extend over roller feed. How do you expect man to clean out skip and top of each skip, it could'nt be done and yet its absolutely neces sary. If you want any drawings of rolls from Cement or Phison I will send them. See sketch of No. 4, showing trajectory which should bemade for large chunks as the smaller stuff will take

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onstin nopper like o akip, akip, lutely or nai vary of itself. You do not send any details of bearings, Dumy tables, Roll drive, etc. It is needless to go into further criticism of the giant roll arrangement. It would seem to me that you would have saved a great deal of time and money if you had sent a general sketch before making elaborate detail drawings.

B. 317. See previous notes.

B. 318. See previous notes.

B. 319, See previous notes.

B. 320. See previous notes.

A. 172. See note on B. 289. B. 292. B.300.

A. 176. Would like details of girders that rolls set on. The plan of bracing. These girders have been criticized before, as they are whown without details my experience will not penuit me to approve them.

A. 160. It think your monoliths are all right for strength and that as far as they are concerned we shall be all right. The pockets shown in .019 are not shown in A. 160, why is this?

You should send general and datail drawings of Dryer and connections as there may be changes in details that may turn out troublesque.

We have not received any conrected blug print of the lat, 2nd and 3rd 5 foot. rolle.

Drawing reprison Pager 148, 149 + 150

22. When why 3 3 (00t. 15, 1903. Letter No. 22.

William Simpkin, Esq.,

London, England.

Dear Sir:

The following is my notes on drawings sent by you. B. 330. Bellantine got Cement Co. blue print. The plates are about right but Kmay be that Dunderland ore will act different and you should have Ballantine set them right on a full sized experimental model, which I understand you have in London, so I will leave this drawing for you to approve; as to the details on drawing, the quarter inch plate is all right for stiffness, pe rhaps it would be well to cotter bolts, or when finally assembled put on washer nearly to head and burr over, as they are in a position where they will receive no attention.

Note. Please show in future drawings, in details, if you intend a cotter or other way of locking, this will save me lots of writing, as I always spot every nut that can get loose.

B. 322. The sphere you have determined on your full sized model blower, that eight blades are better than six, but if you have not, would it not be petter to stick to six as we know this works and while there seems to be no reason why eight would not be better, I would'nt change without I absolutely knew from experiment that it was better. I have been caught too many times on these self evident propositions to make changes. The increase in diameter from 5 to

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akerton bay B. 377118 B. 31800

B. 31911 Se B. 320. 8

A. 172. S A. 176 TT

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#2 W. S.

6 ft. I suppose you have tried. I approve of these changes providing you have tried the experiment on full sized model and found them all right with the ore itself. I note that in your lotter of May 2nd, No. 22, you state you will make the shaft three and fifteen sixteenths dismeter as I requested, whereas in B. 322, it is only two and fifteen sixteenths. In view of our trobbles with shaft at Cement, I can not approve of making the shaft any lighter than three and fifteen sixteenths in dismeter and its none too large at that. I want to call your attention particularly to the fact that the fane should be balanced on the shaft. Ours at the Cement were not, hence our shafts are bent and bearings are cutting; the whole thing a source of infinite trouble and expense.

A. 179. Would like assembled drawing of blower with baffle plates,

realer feed and everything complete, then I can make a more intellagent criticism, its a little blind now with drawings sent. Increasing the casing sheet from 1/16th to one eighth is an improvement. The miral casing for fan wheel dont look to me as if it was just right, I mean the sweep.

Would like a blue print of the bearings you intend using on fan shafts and how you are going to insure alignment of so long a shaft on such a structure as you will have. What is the wooden door for in the lower left hand corner. Where is the latice openings in bottom with spout to let dust accumulating in fan bottom down into main chute. I suppose you intend doing away with the return air flues from top of dust bins, using free air from mill, getting rid of the air blown in by some means unknown to me, if this is correct I de not approve of it. I know that it will not be a success and you and the company must assume all responsibility for any charge made from the plan at the Cement Works. As far as I can

Lefter W1111em

Dear Sir:

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inch plat cotter bo and burr no attent

intendal writing:

B. 322. Llower, the would it a

wouldint, was bette propositt #3 W. S.

understand the general plan of the blower building you intend exhausting from all the chambers by a long duct, if you put an exhauster at one end or even at both ends, suction necessary to draw the air out of the chambers will have to be so great that the first second and third chambers will have a draught strong enough to suck the ore over. I am sorry you have departed from an actual successful working blower house and go in for changes on the most ticklish operation in the plant, perhaps I am wrong in my deductions, but the plans submitted are not clear, so I can tell property what is intended.

A. 178. See 179.

Should you and the company decide to go into the change in the blower house methods, you better insure yourself against a failure by so designing the layout that in case it did fail you could put in the return flues which in my opinion you will have to do.

B. 217 9. K.

B. 218 O. K.

B. 219 O. K.

B. 220 O. K.

B. 221 O. K.

B. 222 O. K.

B. 223 O. K.

B. 224 O. K., except, dont understand bottom "H" shaft, what is this shaft for and why so small a diameter compared with the others. Want blue prints of all idler bearings. Also side idlers.

Mote. The side idlers at Cement are all being changed as the L. rubber catches top and bottom, see sketch No. 1, attached herewith.

B. 225. I note tail pulley shaft does not have any thrust collars

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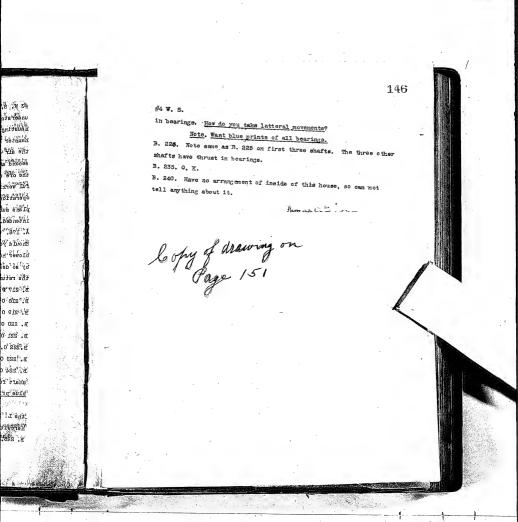
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Registres

Oct. 12, 1903.

S. H. Pollen, Esq.,

Sec. Dunderland Iron Ore Co., London, England.

Dear Sir:

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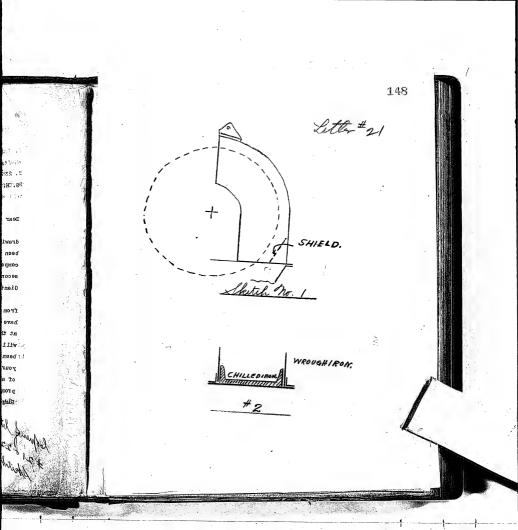
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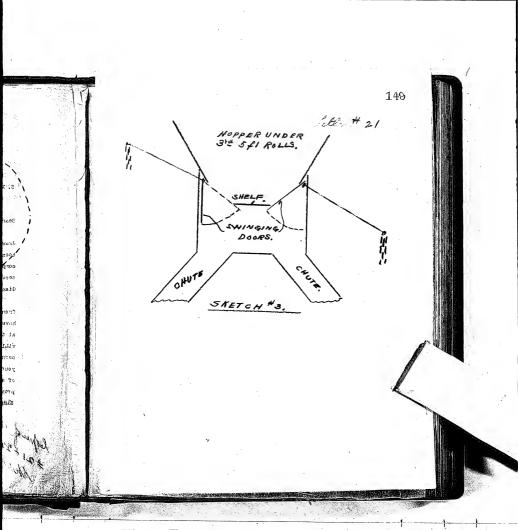
J. 60 1.

Your letter of Sept. 29th, 1903 received. So far all drawings sent by Mr. Simpkin for approval during the past year have been promptly gone over and examined and results communicated to your company. The first leter sent you was dated May 11, 1903 and the second letter May 18th, 1903. One set of blue prints relating to Giant Roll has been mislaid.

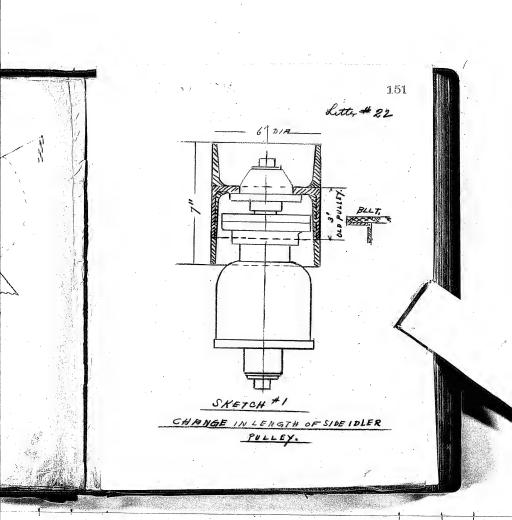
The lot of rawings here, which were received in Sept. from Mr. Simpkin are being studied by me. A part of the drawings have been studied and I forward a copy for record with your company at the same time as I forward the leter to Mr. Simpkin. If you will go over the letters you will see that only a few things have been Tinally approved and what will be finally approved will be sent your company for record and will be entirely based on the results of actual experience without any theory, and you can depend upon a prompt action on my part on receipt of drawings. It is to Mr. Simpkin that you must look for changes that I can finally approve. Yours truly,

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150 Letter # 21 LINE OF HOPPER AS PER BLUE PRIVE B, 316. FEED ROLL, INCORECT WAY. 7:0" CORRECT WAY SKETCH \*4.



Registrus Aldrew Ledy 403

Letter No. 23.

Nov. 11, 1903.

William Simpkin, Esq.,

London, England.

Dear Sire

066. I do not believe in using two motors and two sets gearing for your heavy conveyors. One large motor with 25% more power than you will ever need with very liberal width of gearing is what I advise from the experience we have so far. You can use a slow speed motor, say 450 R. P. M. Advise 24 inch xx genr/head pulley and 14 to 16 inch for second. You will make no mistake if you use very heavy shafts. Flexibles are absolutely necessary with bearings on each side of pinion. Our flexible works perfect. You spoke about a flexible which catches and drives without slack. We find this a disadvantage by the slack we have; when we are shut down we can turn motor 1/2 revolution, fix brushes, clean commutator and feel for bind. On our starting up system the motor starts slowly. Our gunny chamber of 109, with 50 H. P. 18 x 12 is just right and temperature is kept within degrees of outside. We were compelled to use three thicknesses of gumny for inner walls and one for outside to keep leaks down. With no dust of float we now have no trouble with brush sparking or glazing of fused dust. We have five inspectors, each man has a certain number of motors which he visits four times daily. He inspects for oil leaks, dust leaks, rubs the surface of commutator a little with crocus cloth, sees brushes O. K., nuts all tight and notes the temperature of thermometer.

#2 W. S.

The result is our motor system is as near perfection as anything can be and we have no trouble except where there is jar. New I want to impress upon your mind the serious character of sharp jars and shaking on motors. Where we have jars on motors we can not keep the brushes from sparking as the jar is transmitted to them; the result is constant roughening of commutator and increase of spark and change of brushes. Even the motors driving rolls should have flexibles. I spoke to you about this once before.

The big 1,1/4 inch wire rope flexible used as wobbler on 3rd 36 Folls is all right. You can make them to drive any amount of power. If you use outside air and draw it in by fan, and force out through gunny, look out that the air outside will not be very dusty on certain direction of the wind. Cement works got knocked out in two or three places where they did this and had to go back to the old way. Look out and have a very large shaft and ample hearings, as well as many spiders on the big idler that serves to increase are of contact of head pulley on conveyors. We have had serious trouble here until we made them strong.

F. 246. Your upright side idler should be one inch longer to meet every contingency. I am going over balance of drawings sent and will finish shortly.

Yours truly,

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Letter M

William Lo

Dear Sir 066.

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In, Eag.. Letter No. 24.

William Simpkin, Esq.,

London, England.

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E. 246

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Your No. 37 received. You must have misunderstood me regarding the hoppers for the Giant roll and when I suggested the use of wheet steel for hoppers of rolls in place of cast steel, it only applied to the finer crushing rolls. As hoppers on Giant and Intermediate Rolls were reconstructed three times, each one stronger than the other at a cost to me for works, delays, etc. of over \$30,000, the requirements as to strength would not likely slip my memory: I refer to hoppers above top of rolls and sides. As to the hopper below Giants for storage, that can be made of sheet steel and we agreed on that in Florida, but the bottom I told you would have to be strong. You will not be able to depend upon the men keeping ore in the bottom to cushion below, no matter how intelligent they are. Any mill constructed which has to depend upon the intelligence of the men will be a big failure. Fix things so if neglect comes nothing is ruined.

I will send you this week sketch of Giant Hopper at Edison and rough sketch of my idea of hopper for your giant. I refer to top and sides and also storage hopper, feed rolls, etc.

If you get no reply from a drawing do not take it for granted that it is all right. You say that upper part of hopper of #2 W. S.

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Giant at Stewartsville is of wood, this is a mistake its of steel; the Giant at Edison has wood and its no good, build of steel.

Speed of feed roll above Giants has very little to do with the trajectory of large pieces. Your experiment with small feed roll must have been done badly. A circle acts somewhat like an angle chute, from the time it starts to milde it moves down a circle and can not possibly fall any where near perpendicular; if it was wood and did'nt slip it might, but if of iron and it alid, then it forms a large trajectory. You remark that, "however, you wish it and so it will be moved back." Its not a question of my wishing it, its a question of getting it right and my data is based on actual working.

- C. 136. Dirt will get in between door and hopper on plan you show. The sketch we sent is best thing we have found. This sketch No. 1, Letter 21.
- C. 137. I am sure first 5 ft. rolls should have cast steel for hopper. I think Manganeses steel wear plates are good, providing they will give more wear for the money. I await sketch of gate slide. We have used every conceivable one and not one worked permanently.

Will send you chute sketches this week, bottom Dryer and last two rolls.

B. 316. I never remember suggesting chilled plates in upper hopper of Giunts. You must have misunderstood me. We nover had them at Edison or Cement and there is no need of them, as wear on check plates only commences when you get to finer rolls.

Please take my notes in the spirit they are intended.

I am only sending you criticism based on experience in actual work, with such conservative changes that will tend to eliminate defects now met daily. If you could spend one month at Cement works, you

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plates

I am on with su now met W. S. #3.

would'nt need any of my letters. Our ropes last on Rolls from 26 hours to 240 hours, depending on state of the plates and oveness of feed; this is on crushing Cement 90% through 200 mesh, with less pressure for coarser crushing life will be longer. When roll plates chip off, load varies pressure and its severe on ropes.

B. 246. We never had this drawing before, see last letter in remaking inch longer.

All drawings or parts approved by me finally are marked and with proper explanations, are finally filed with the Dunderland Iron Ore Co. and I will only be responsible for those things finally approved and filed with the Company, of which there has been two parcels already sent.

Yours truly,

# 2 W. S. etc. and w

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Letter No. 28.

J.n. 15, 1904,

William Simpkin, Esq., London, W. C., England.

Deur Sir:

Replying to yours of the 31st ult., I beg to state that I so to Plerian about the 25th of Pebruary, but will be busy from now on. You time your visits at a time when I am overwhelsed with work.

I do not understand your reference to find prinding rolls, as you leave out all explanations. You will be interested to know that one of our 12 inch from singles on fine grinder snaped in two parts. We use removeable plate and put on a new rone in 40 minutes, so do not understand your remark about not being able to do it.

Yours truly,

Edison

April 25, 1904.

William White, Esq., 75 Wallace St.,

Orange, N. J.

Dear Sir:

I beg to enclose you herewith letter of introduction to Mr. Peter Weber of the Edison Phonograph Works.

Yours truly,

April 25, 1904.

Peter Weber, Esq.,

Orange, N. J.

Dear Sir:

This will introduce po you Mr. William White who was employed here in the office by me some time ago. He is desirous of obtaining a position in the Fhenograph Works shop and anything you can do for Kim will be very much appreciated, by,

Yours truly,

Letter

c/o Sran forwarded to

Dear Sir:

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Dupderland fr Fitselan Lor

Dear Sira:

April 25, 1904.

H. E. Dick, Esq.,

o/o Brown, Shipley & Co.

125 pall Mall, London.

Dear Sir:

I beg to enclose you herewith copy of a letter which I forwarded to Mr. Simpkin this day.

Yours truly,

Thosa Edwon ....

April 25,1904

Dunderland from Ora Co.,

Fitzelan House, Arundel St., London, W. C., England.

Dear Sirs:

I beg to enclose you haremake copy of a latter which I forwarded to Mr. Simpkin this day,

Yours truly.

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11 25, 1904.

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11 25, 1904.

Letter N

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H. E. Dąck, Es c/c Bro 125 Dear Sir:

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Dear Sir:

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Letter No. 29.

April 25, 1904.

William Simpkin, Esq.,

c/o Srandard Construction Corporation, Ltd., London, England.

Dear Sir:

I do not understand your letter in which you fear it is too late to make changes in the 5 high Rolls. I have never approved the complete drawings of the Rolls, and your letter would imply that you are making them. How about the other drawings of Dryer, Conveyors, etc. which was to be sent for final approval?

Cours,

Thesa Edwon

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Dear Strat

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June 8, 1904.

Dunderland aron Ore Co.,

Fitzalan House, Arundel St.,

London, W. C., England.

Dear Sirs:

For the purpose of record I wish to state that I have never received final drawings of the three high fine crushing rolls and the major portion of the plant to be erected in Norway and the statement in the prospectus that I am to design the plant has not been carried out.

Yours truly,

Thoso. Edwarn.

I do late to make o complete drawi are making the etc. wind was

H. D. Dhok, Ne

William Simpli

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Dear Sir:

c/o Srand

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June 15, 1904.

H. Dick, Esq.

June 15, 1904. of Brown, Chipley & to.,

London, W., Englant,

Dear Sir:

Dunderland Iron O

never recelved I and the major po the statement in

not been carried

Dear Sira:

riffalah nov

London

Por th

As per request, of Pr. Eddaon, I beg to enclose you herewith a copy of a letter sent to the Dunderland Iron Ore Co. June 8, 1904. Kindly noknowledge receipt or same, and greatly oblige,

Tours truly, . A. Mudoch!

Regulario

Sir David Dale,

c/o Edison Ore Milling Syndicate, Ltd., London, W. C., England.

Dear Sire

As per request of Mr. Mdfson, I beg to enclose you herewith a copy of a letter sent to the Dunderlane From Ore Co., June 8, 1904. Kindly acknowledge receipt of same, and greatly oblige,

O fallenge jage

June 15, 1904.

Dunderland Iron the Cot,

Condon, W. C.,

England.

Dear Sire:

I beg to emclose you herewish a copy of a letter which was eent you on June 8, 1904 and which I omitted to have registered at the time the original was forwarded.

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yours truly,

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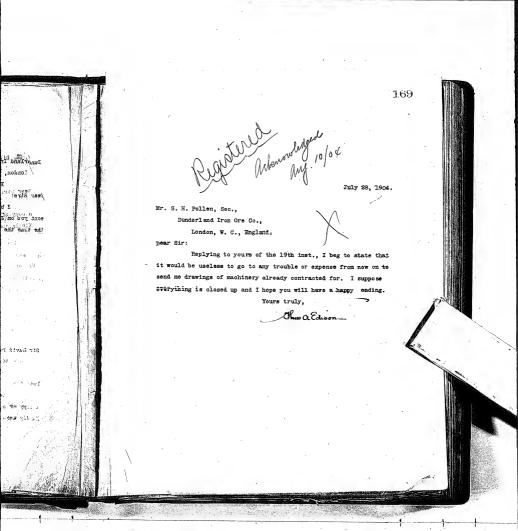
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Sir David D c/o Ea

Dear Sir:

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Gabal!

Oct.19, 1906

William Simpkin, Esq., London, England.

Dear Sir:--

Mr. S. H. B

Dear Sir:

it would be

send me dra

Sverything

You will notice on new rolls that we have provision for Bath oiling—so far we have not made it go very well on account of leaking of.oil. It saves a great amount of oil; however, we do not use the overflow pipe close up to shaft, but supply all the oil the bearing will take and let it drain away from casing. You will notice the new stuffing box. This principle has proved a great success. The old way the wood sagged away from shaft in the packing case and let dust in; with the new way this can't occur since the dust must filter through the wood which it can't do; the result is that on all bearings with this packing, we never have trouble with dust.

We also made the mandrel a considerable distance from the hearing; this prevents showers of sand and also helps us in getting plates on.

We start the rolls, i.e. back roll, with rope and windless which works 0:K.

W.S.--2--Oct.19, 1906

Use our soft babbitt. We tried regular hard babbitt and had several pinches, because it wears down so slowly that it takes too long to get an oil bearing. When using the regular soft babbitt (of which you have the formula), we make the compression of springs one and one-quarter inches the first week; the next week we increase pressure to one and three-quarter inches; week following, two and one-quarter and week after, two am one-half, which is about the amount we regularly use.

We made great improvement in working of rolls by feeding with fine ore. This stopped jumping of rolls which was due to large pieces. So far the rolls have worked perfectly and give no trouble whatever. The power used particular is about double (per barrel) that of rope rolls, but output is greatly increased, because they never break down.

Yours truly,

Phu a Edvin

Parenal as greatures

aselbah.

November 19, 1906.

William Simpkin, Esq.,

Dunderland trop Ore Co.,

Fitzalan House,

Arundel Street, Strand.

Mondon, w. c bogland.

Dear Sir:

Yours of Oct. 31st. received. If I remember right you have four rolls for fine crushing, which at 50 tons hourly, each 20 hours, would be 4000 tons daily. As you want more and do not want to load your belts up with returns, the only way to do it is to increase your pressure. The capacity goes up very much faster than the pressure; we carry 750 tons on our 36 belt, to and from the rolls.

The rope rolls would do about 16 to 18 tons hourly, 85 per cent through 200 mesh and about 65 tons 20/1000 diameter per hour.

If your present ore is anything like the 20 barrels of ore sent me you should crush 75 to 100 tons on your present roll. The only explanation I can make is that when you got into the ore it became very much harder.

We have one of our big rolls same as drawing sent you, run by a motor and belt, it runs all right. The best solution for you is to duplicate what work here so perfect, possibly driving with belt. We still run 200 revolutions per minute and carry all the pressure we can on the bearings; useing all the cil the bearing will take and keeping thermometer in oil to note its temperature.



W. &. 2.

We pass 200 tone of clinker hearly through the rolls. The efficiency is only a enestion of presenter. Your changed roll will not have enough bearing surface to give you want, that's my opinion. Are you crushing 4000 tone daily?

Yours truly,

Thosa Edwin

Dear Sir:
Your rolls
your belts
pressure. 7
carry month
spart me you
yeary manch to
your belts
saghanation

duplicate v still run on the bear thermometer

William Sin

Dunder

William Simpkin, Esq.,

Fitzalan Heuse, Arundel St.,
London, w. c., England.

Dear Sir:

If you are having trouble about making enough fines, you should change the corrugations on plates to correspond to cement plates. The cld rolls carried 200 tons per hour all right and the corrugations were 0. K. for the finest crushing. The new rolls sent you show them.

The corrugations you have were adapted to the ore sent from Norway and was probably top ore and not hard, like what you say you now have.

Minimum corrugation give finest crushing,

Yours truly,

to store a freight on furnace, th

is name desc Section of the contraction of the cont

Wm. Simplein

Dear Sir:

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Dunder

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and the state of

February 27, 1907.

William Simpkin, Esq.,

Dunderland Iron Ore Co.,

Fitzalan House, Arundel St.,

London w.c. England.

Dear Sir:

In reply to your letter of the 30th. ult., I beg to state that Mr. Edison has gone to Florida and will not return until about the 15th. of April, when your letter will be placed before him for his attention.

Yours truly,

Secretary.

William Simp Fitzala

Dear Sir:

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Lance dade to be

William Simpkin, Dunderland Pitzai

Dear Sir: fir In repl Mr. Edison has of April, when Dec. 14, 1907.

Wm. Simpkin, Esq.,

Edison Ore Milling Syndicate Ltd.,

Fitzalan House, Arundel Street,

London, w. c. England.

Dear Sir:

In reply to your letter of the 28th. ult.; I beg to state that Is United States Steel Corporation and others have big slag Comenn Mills in this country. They are troubled with variable slage and subject. Our costs at works are lower than any other mill in this country.

Flour in cement is worse than useless; it is hydrated in the next of mixing. What is wanted in a comput where all is fine and a minumum flour, and not cement with a large amount of coarse, which takes a year to hydrate, and swell the stready set concrete and a los or unpalpable flour, that sets while you are mixing it.

There has never been a single instance, where our concrete has obver a single failure; which is not the case with the other Companies.

Yours truly,

Edwarm

We have supplied all the cement for manhation . .

Jan. 29, 1908.

Wm. Simpkin, Esq.,

Fitzalan House,

Arundel Street,

London, w.c. England.

Dear Sir:

In reply to your letter of the 17th inst., I beg to state that your trouble is want of aeration. We have no trouble here.

Our cement tests higher than any other. The fleur is a disadvantage, as it forms a colloid right away, and weakens the cement.

Eighty five per cent through 200 with a minimum flour and well aerated, makes the strongest cement possible.

Yours truly,

.

ingate...as

Wm. simpkii

Dear Sir!

Ernest Cas

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## Edison Ore Milling Syndicate, Ltd., and Related Companies Experiments (1899-1900), Cat. 999

This book covers the period November 1899-May 1900. It contains notes, drawings, calculations, and test reports relating primarily to experiments conducted by James B. Ballantine on ores. Most of the entries are in the hand of an unidentified author, but there is one page of notes and calculations by Edison pertaining to sight-feed experiments. Another note regarding the price and consumption of soda for briquettes bears the initials "T.A.E." Also included is a report entitled "Report of Cement Arch Test No. 3," along with notes concerning a "hematite machine" for Dunderland ore. Portions of the book are transcriptions of notes contained in N-99-11-29 (see "Notebooks by Edison" in the Notebook Series). The spine is stamped "Record" and is labeled "Experiments." The book contains 401 numbered pages; many pages are blank.

Coperment on Norway Over by Ballentine. Nor 29 99 Saught a contains 2.66 % of De (Shock.) Country to an Lokal wayle 650 9.

A egilaius \$2.66 % of Sr (Spaces.)

Connect to are tolal megalis oso graine blown out by air 21 mg, as dust. The oso grainer blown had following precentage after running Magnetics of Menasik 46% Oxide Status 51%

Such 21 %

The above vamply seperates Early, there being no prior of quarts with Magnetet steeling to be Made relay for O myrif, got as sent sample to Me Greath to desay for St x O - No deporta-66.2 St J. 018 Rum who I times - 6 time to make bonce is once or new who films of times to make bonce is once or once or new domestate.

Saugh B' after runnings.

Sundard to orr
Magnetite
Silvey
Silve

Machine Boutains about 30% Magnetite
Sto worly all Magnetich!
Sample S 30.00 St Shock) Boutains 30.4 Fe in Magnetite
Only seprestrable on Delp "W"

laugh & 33 gs Fr. (Shock) Connort sepurate on Newatik

Continued Complete 26 of Standard South (Ballantus) only repeats.

Sample I 17% So in Magnetete - Sixed this sample on Semanto maching but did not get any good proutte wing to sungenings Shis is one of the bad samples I me practice I do not think it would pay to seperate the Nematite coming to the Magnetete.

"" Wagnumps Look out for trouble here

Pluphe I HAGO fo Se (Shocks) 43. 4 % So in Manutite
No Newatete de Manutite

Dauple IX 41.94 % Is (Shock) I (Balantin) get 36.2 Fo in Magnetite Mry little Henatite. A Magnetite. Sample I 34.24 Is (Shock) 20 2/9 of this iron is in Magnetite.

not 54.5.1. W (Stacks) 20 of bus from it in Magnetic.
Counch seperate Stewarthe this would make a love of wolin tailings! This sample may have been taken from the
student and in wrathered out (it looked that way).
The foreness or how Malagued Belowith

All foregoing are fine Motorial Deposit.
The Untrained deposits would give an average of 3% For in
Magnetite Tailings 27% For in Magnetite could be got
with bar magnete the 8% in Mediatite could not be
got owing to Magnetite Magnetite/

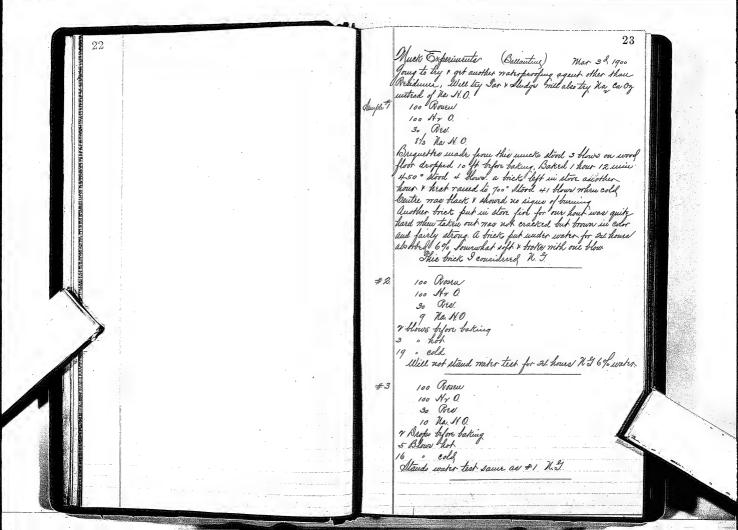
suplift 35.54 by Fr (Shocks) This is on of the fine sample for Newater Machine as it only containe 1/6 Machine have been a found of making a good concentrate each time, barned are any quarty in concentrate muder Microscope Couched to dia

much to convenient much Missoner Objected to die of the much to boutene 14.4 So in Maynetik Shock reports 32.39 % Fe total One of the bad valuefee but seemed to work freely good could work if in practic OK.

M. 3.1.5.2 Fr (Shock) bortame it 3 % in Magnetite.
This and the last two samples are from the Vertralid.
Defort, and are OK, for the Newatek Machine.
Our to speak with 8 Magnete running at the rate of boo los for hour for foresalt machine. Thus is door by blowing all of the tinf yearler than about 0.03 out by air blowing all of the tinf walter than about 0.03 out by air trailings to concentrative respectively when he seems good trailings to concentrative means the concentrative were to get shiff that is une magnetic than Munth. I over to get shiff that is less magnetic Thill have to blow dust out in.

Experiments on Honory Ore. "Continued. Continued Monvay will to get machine to work well Nave mixed & crushed up all of samples sent in rock form Saugh N. Containe 18.3% It in Magnetite x 10 no good for from Dunderland Couched to ong - Took out Magnetike in Newstite Machine 1) seven rund on belt maching (#1. small bottle is a sample) Sambles ON are all ON for Newalte Machine and can be seperated Jook out nort Mugwenips on Newatite Maching with Officer rate with not more than (9) nice magneto at most 10 lamps ( Sample bottle #2.) Refron fact 8 served to be all that is required 6 runs to Made seven ruce with to lampe 84 volta 388 auf. make concentrate with 85 volt & 11 aup. - and turce 1 et Run took out 5.6% I ) to take mugurunged - one sun with 20 lamper 67 volto " Il V3.3 amp to catch stuff that is a little less Magnitite . X Shaw Newstek: x over mith 45 lawpe 85 4 olto 4 amp to catch stuff that we a little more Magnitute than Newalite Saugh V ary June author Deposit v are difficult to seperate x 2 V Contains 38.49% in St 19.2% of it bring in Magnetite - Z contains 39.83 in Fe 15. 8 % of it bring in Magnetite. This concentrate is from three some runs 48% For # 3 bottle is a Sample # 4 bottle is a sample of tailing Navo mixed up all of the samples in bago cushed and Screwed to or going to make Magnitite & Newatite brighter made in the same rund -Neraw 48% boureutrate 3 times 45 lamps 85 volto to send to Fandon - Jook out Magnitike on belt machines in I rund - I find that I have an enormous amount of 4 aup - assays 59% Fe. Bottly # 5 is sample of musurunds from the samples that contain about half Consentrated x #6 is sample of tailings - Made other magnetite & half Hunstite - Will have difficulty in making 3 runs with 25 lamps on, to catch portion of mugurunts a good concentrate I am afraid - Nith object of eatching less Maguetic than Newatike. Took out tailings in strongly Maquete Mugweenps & got rid of, as they clos bottles #7 Concrutrates in bottle #8 Regnolud the Hematite Maching-They are not magnitic lungh Concentrates to .001 x ran turce - Concentrates in big for belt machine & to magnetic for belt machine. bottle is resulta 1st run was wade with & lauges on board 4 is 7 votte 2 2 amp > 2d Run mth 15 lamps 61 Volto 2.8 amp. This serves to catch all the Mugurunps or half grade . 20 . 67.6 . 33 .\* shiff between Magnetik & Newatite - Used diffecting board to cut ethane Next made I rune with to lamped 54 votte 3.88 amp This makes good tailings - Orrain the concentrate 3 times with 40 laups 84 volto. 3.88 auf. The concrutrate now looke good - Made array for O' myself ( short method) got best - The Maquelike should go about 67% Fe I think & the Nawatch in the briguetter between 65 x 66% Se - Nave heard that Newstete briquettes only mut 63.94 f. To x.05 f. in Kondon

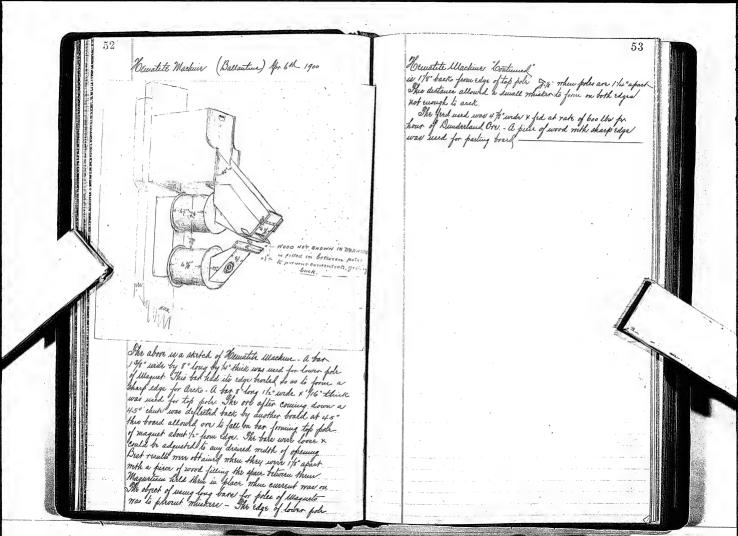
To the state of th	March 15'190 A minture of Thanklinite and Tarnet ore south from Jacklin Survey or Present waching My Jeanklinite is a good deal more magnetic than
2.040.5 Expression of the Confession and Confession of the Confess	the horway over and a purper seperation was made in 6 runs at rate of 600 lb fr A.  1 th New was with 8 lamps on board 447 volto 2.2 amp  2 d
Section with the section of the sect	There is good deal of difference in the inaquelic stringth of the Shauklint - Nad I used exough power in this first rue to differ to say the stuff I took out in the strip will differ to it is lampe mould differ, would show blocked the magnet with the lampe, huse the many for used mould affect, which waster for using a week magnet first, getting stronger tack hus. The folios of magnet
	mon' 1/4" apart als the end of above mentioned six  number of magnete more put to apart and the  Carnet or man taken out in the other six news moth.  4 slamper or rolly it lund. The ore way orwheld to 023  The Franklinite breaked out of the Calcate clean v is  equy to superate. the Garnet is more difficult deflect  bridg a great deal less Magnetic than Franklinde

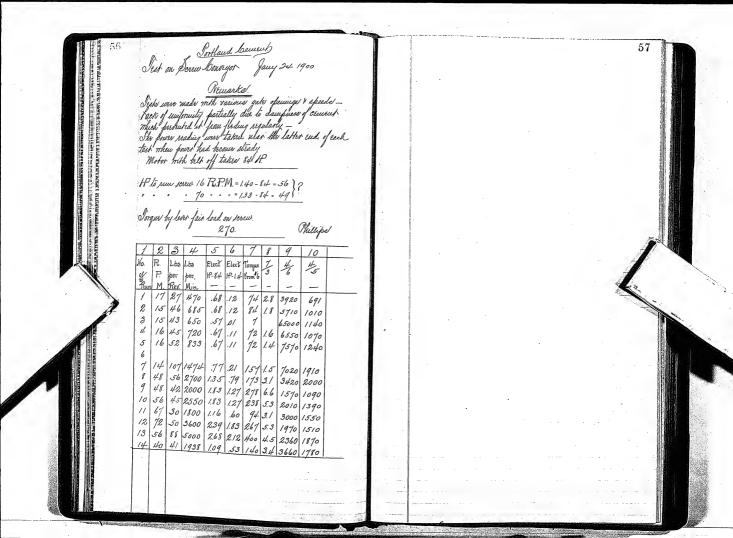


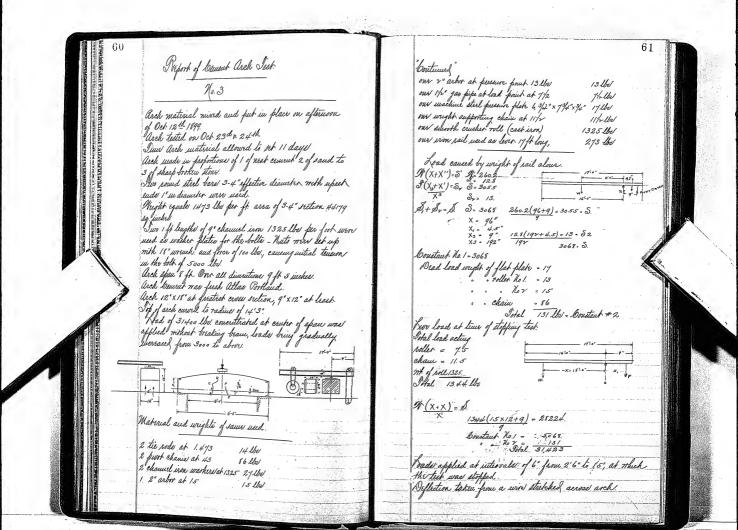
Much Experimente boutuned. Muck Experiments "Continued" After lying under water 24 hours absorbed 5 % ( Seems to 100 Prosino be hard compared of other tricker) expired to port 10° above. blows afterward - Week when hot otherwise a good brick Briguethe water from above much stood one drop. April blow cold. Stander water test same as #1 N. G. 100 Prosew 6 Bropsbefore baking V blows hot 16 blows cold. 125 Nr 0 Water frezing did thawing tests same as #9, 2 blows afterwoode. Briquethe made from above much stood I drop before 100 Rosin taking - 6 thows hot in blow cold Stande water teet same as #1 n. g. 14 Ha ba 02 100 Rosin 5 Drop before baking 3 blows hot 3 blows cold. 125 HrO Water progring & Shaurung teste same as # 9 - 3 blows oftended 30 RED 10 Mar St. O I Deep befor baking it blows hot - I blows cold Will not stand water test 24 hours - N. J. 125 M. O 100 Rosiu 10 Ka ba Os 125 Water 1 Drop before baking 2 Hour hot - 5 Hour cold. 25. REN Water freezing & thaving teste same as # 9-3 blow afterward. 8/3 Na N.O. I Prop before baking 6 blows hot 12 blows cold Water teet sauce as #1 100 Rosini 125 H20 12 Ka Ca. O. Aborbel 1. 9% make in 21 hours after bring exposed to first K shawed I show afterward 8/3 Na H.O 1 Drop byon baking 6 blows hot 15 blows cold. Stood 5 drops before baking 3 blows hot 16 blows cold. Water tech same as #1 N. S. This is the best brick so for 100 Rain 100 H20 30 Pres 10 Karba Oy 14 Na ba 0. V drops before baking I blow hot 25 blows cold. 8 Drops before baking & blows hot we blow cold -Maker freezing & Thawing tests sauce as #13 stood 5 blows

Much Experience of Continued. 4-14 afterward - This brick is weak when hot but series to be 100 Prairie 125 Nal 5 Drope before baking 3 blows hot 47 blows cald. Maker furgues & thanking tell same as #13 Short rime blows efterwards 2 Dropo before baking 5 blows hot 81 blows cold Muder water 24 hours abortel 1.3% after being exposed to post & thoused saws as other breken stood 15 Hours. They is OK bret friet I have ever made 125 H 0 16 Han Ca 07 Brieke H. S. Low wuch sode. # 18 Jame as # 16 only tar used instead of Real Breeke are fair could be used as far as strength se concerned - Stando 3 flows hot - Muck untild to N. I m Gratic - Sar change into Cifch w micking up. 8 matro Much to thick Mesh block up pipes give no tud of trouble - Bauert get more shaw 1,25 part Ny 0 to nix with much. Her makes the much to thick - if say 200 parts would nex this night to OK

32	33
A CONTRACTOR OF THE PROPERTY O	Sight Feed Experiments Jamsmid
WITH WALL	number of Drops por Man, gathern you have
THE PARTY OF THE P	30 DIII07 - 1111
200 A 100 A	89.1 02793
W. W	116 03687
100	1424 04598
A CHARLES	179.5 ,06121
COTON DE LA COLONIA DE LA COLO	233.7 .08352
	370 .14529
	Lighest obtained Franker 668 28804
	Amallest stream on moreaning 26419
	function stream on decreasing 13209
	For open value at a height of or corresponding to 25.5% of or open dead rate
The state of the s	The above experiments were made with the
	ought fied glass used at ogder mile - Con uses was a 3 gallow can Mile oil
	Can used was a 3 gallow Can will all
	was used- Lamperaline a gare 10



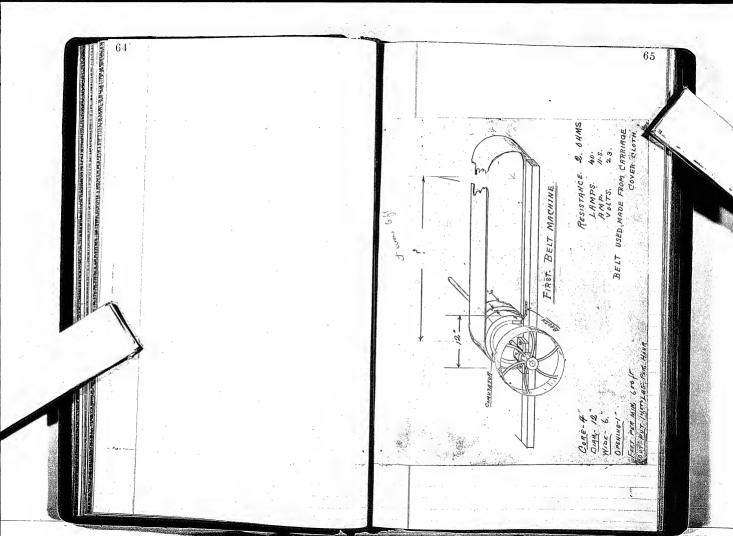




Supert of Courset arch tech "Continued" Thuder land of 9800 lbs, the differior was 1-16" 24000 On securous land there was a permanent diffection of line ! Haw 1-16"
All cracke cloud up under all loads under 22000, so that you could hardly find throw. Deach appeared as for thick.

A. to B. at toad of 3000, inversared to be by increasing load to 15000, to D. by increase to 24000, tryond of thick no proceptable increase was found.

Grack & to I appeared at a load between 19 and 20000 I survey were no cracks at supports.



The price of water ID to Departure is not for 100 lbs 48% - It buy 58% which is fractuelly five bestrack data + as fray on the tains of 48% which brings it to about \$1.03 for 100 lbs. We was about 2.8 lbs of 58% Intend for time of traguether \$6/00 S. a. E.

#### Edison Ore Milling Syndicate, Ltd., and Related Companies Cost Estimates (1901, 1907)

This book cover the periods November-December 1901 and February 1907. It was used by draftsman William Simpkin and unidentified authors. Most of the book consists of itsue copies of construction and equipment cost estimates for the Dunderland works (1901). A few pages, dating from 1907, relate to pattern drawings and the cost of installing giant rolls at the New Jersey and Pennsylvania Concentrating Works and the Carnegie Steel Co. The book contains 506 numbered pages; pages 69-500 are blank.

### Conveyor - Dunderland

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Mater too to com (1000 kmo)	2000

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820 ft of tree at 22 1640

1640 ft nubber edging 410

1860ath Fail pulsage in 715

1800ath Fail 1222

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Carned forward

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#### Conveyors. Dimdorland

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Herad a tail pulling to	416	
Conveyor Rumway between buildings		
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motor GT H. 20= (000 tom puh)	1300	6788
		•

Blown House 1 to Magnetite Separators 96 Belt 426 ft Vertical hugher 84 ft 860 fr of beet at 2 == 1730 1730 . - Rubben edging thead . tail pulling to Conveyor Runway between briedings 372 pi at 12 00 Idlery 44 426 ft at 200 Motor 70 1. 20 1400

Return Bett from Assagnetite Separation to meet incoming one 24 Bet 260 ft. Vertical height 48ft 838 p bet 1.28 1090 - auther ediging 267 20 Head . Pail Pulleys in Conveyor Runway between briedings 216 gt at 102 Adding to 360 ft st 300 meter 25 H- 20=

Conveyor Dunderland		
Manuali C	rwand	89 8 4 6 25 89 68 4 25
Magnetile Separators to Horno 24 out sport - Vertical height of	ulile Sepanatos. Oft	#4 0 mm 2.
The " Orubber education	7	
Tail Gulling	39250	
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Muter 40 HP. 20 = (400 500)	1 1 4000	
Wuter 40 19. 20# (400 [m])	800	705075
24 Beet 16+4. Vertical tright 26 ft 1900. The 124 of the of leet at 126 to 30 to 126 t	43125 17250	
Head . Tail Outleys a Conveyor Runway between buildings 104 ft at 100	-62s B	
	10+0	1.
make to m	+9 #	
Motor 15 17 202 (300 tms)	300	\$06175
Transfer Power 18 20	950	
Magnetite Separator floores to Blown	. # .	

24 Beth 582 ft. Vertical height com 1120 ft of belt at 135 2240 . Rubber edging Heead . Pair Outleys Conveyor Runway between buildings 260 ft al- 10= 3 dens 12 #52 /1- al- 30 motor 25 14. 202 (200 line).

Carried forward

# Corregors. Dunderland.

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600 ft of bell at 125		85625		
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Conveyor Runway between bu	ildings			
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1210 . Aubbezedging	and the	802 50		
Head . Day Bulling		625		
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255 R- 01- 10=		2.525-0		
Idlers 1 296 ft at 32		8 48 8		
Motor 25 12- 20=	250 ino)	500	€6 <b>ጊ</b> 1 -	76
gramma and the same and				
المام المعالم المام المعالم المام المعالم المام	1.00			
and a state of the same		L = * :		
Oslower House \$ 3 to Hemati		ie.		V
24 Bet 336 fr. Dertical	height 624.			/
685 fr of bett at 135		85 6 25		/
1270 Rubber Edging		\$ 4 2 50		4. F.
Head + Tail Pulleys		628		
Conveyor Runway library britis	umgs			
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the second second			135673 0	

V		
*I Coucher House to Druger.		
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16 - 2	5-0 1.60	
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Bears are come the	409.94	i.
bonney let a let	عظرياء و	
and the same of th	57750	•
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66 lt distanton de anima et la co	158.40	
66 ft. of interior framing at \$220 Edlers, blange, and address tte.	3	
Auth + Mago 1 +	14704-	
411 ft at \$350 funfort.	1479-60	*81335 <b>4</b>
5 Bente - andge 1200 ence	60000	5/357 <del>4</del>
- 30 4 6 00 + 50 F	2 · ·	
- 60 NO Trota- 500 tone per hr.	21.1.1.1	
#2 Return Belt, Dryer to Comehen-		
24 Out 430 feet C. to C. level. 874 ft. litt, at 132	*	:4
	1092.50	
1748 miller edging-	524.40	
Head and tail pullup frame, shafts, }	39477	
bonney numay between buildings including		
Conveyor rumman between binldings including		
competed with covering and shut in	Y	
10 - 398 ft 200 lb - 4 5 8 822	2704.00	
92 It of interior framing at 128	184.00	
On the finding frame of the same	840.00	
delere, de learnes etc- 430 ft. at	1290.00	1029-67
- matrix 20 or One		7
"3 Dryen to Rock Stock House.		. /
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680 ft. bett, at \$200-	1360,00	j
1360's subburedging.	408.00	* ********
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lamengo rumony between buildings -		
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Odlers, lider bearing etc. 363 ft. at 300	1198.80	
30 the of interior framing at 220 Odlers lider beaung ite 363 ft at 362 3 Bente - marge 1 / 20 = each	360.00	6717.54
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356 ft of 36 Out at 250 -	1.12.00
712 miller solome	201/3760
Head and tail pulling eta -	409:94
Head and talk pulling its	38640
Odlerset water bearings 161 tt. at 300 -	579.60
1 Travelling Tripler	2 6 8 0'0 d 2 2 d 8 F 24
- Vintara 5 20 0	€ 1 42
Man and a second	
** 0 ** ** ** ** ** ** ** ** ** ** ** **	
36 Belt 204 ft C FC - Vertical higher 1 tt.	*.usa. <sup>1</sup> < pp. <mark>4</mark>
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	1 88.40
762 Deutschaffeng	4.00.04
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Agent and trail fulling it.  234 th instant framing at 122  Odding living and a th 13 32.	84340 3266.54
Cathering to the same of the s	
	5 Marie - 2
6 lemmy from Rate Stock Store	
to Time Trinding Houses	
36 Bet 265 It Ct. C. Ventul Light 17 the	1=4.5
524 to 36 But at 1200	1048.00
local de de de de	31440
1048 the sales star for the sales of the sal	409.94
Audina -	
238 ft, ± #962-	2284.80
the the start of raming see \$2.42 - 30	9.8.40
Odl de de reamon 255 st at 358	91.8.00
allere auguster bearings 255 ft at \$ 3,50	360.00 5433.54
3 00199	3 mail
_ Mate - 50 AD-	
THE TAX TO SEE THE SECOND SECO	
and the second s	
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alle in the second of the second	4
and the second of the second	2 362.37

leaned forwards

3 3 6 2 . 3 7

Brought loward -"- 37 - Sonveyor. Top Fine Eninding Rolls. 43 @ lite 158 to Ctas - 3'8" Dumpe. - <sup>1</sup> 92500 370 to 48 Bet at 22 740 motabler edging-34 11100 75622 in Head and tail fulleys, etc. 5 158 lt interior framing st 120 6-425.40 Edlina Fider bearings. 788 ft , att 4 55 6-718.90 3 . S. Dumpa , Lt. 19 5 12 -438.66 - 3803.18 - Motor 25 H.O. \*8 bonnigo Bottom Fina Strade Belle 48 Belt rott cto contint 395H 48 Cett 128 2 50 99000 5 79 2 Tuillan edonia --123760 Head and tall pulleys, etc. ° 44622

of the suitand framing of 1200 5.3 7.8c -8-69.08 3087.67 1 -...0 - matrix 2004 C. 22.50

= 9 bouts on Granding House to Sine -8 Best 342 it C. to E. Vertical higher 77 the 698 St. 48 Bitte ax 1200 1745.00 tim 1390 Laubber edging 418.80

456.22 2 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 2 1 1 2 3494.40 30 ft interior framing tot 1280 84.00 addentider bearings 34 ft at 430 18.5610 16 Blutter 72000 in grande was the - Mister-100 A.C. 1,000 tone

## Conveyors.

*10 langer Top of Streets 48 Out 12 15 Dumps	Contract to
572 ft. 48 Chat at 1282	1430,00 j 343,20 j 456,52
Enterin haming, 229 to, bt \$2 82. Odling sid. 22 9ft, at \$4.55. 5 5 Dunger at 1 4 6 22	64.620 104.642 731.10 2+643.67
- Srota- 30 St. P.	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
*11 Conveyer Return Belt Screens	<b>.</b>
36 Bett 572 tt Cto Westical hight 53 ft.	2316ço
2316 millen edging.	69±8c; 409.9±
cocycific runny between buildings-	297600
262 ftenterin framing, at \$240	42 8.80 2059.20
4 Bente J. J. J. J.	480.00 9564.74
- Mita- 50 A. O. 660 tompulu.	1748.05
114 Conveyor Times below Screens. 36 Belt - 352 ft b. to b. level.	- 3 x 2 2 x 3 x 3 x 3 x 3 x 3 x 3 x 3 x 3
518 ft. 368 (Belt - at. 200)	310.80
Head and Fail Bulleys.	409.94
Odlers + idler bearings - 1252 ft. at \$350	907.20 3268.74

- Motor 20 AO.

Carried forward

\$ 151.04 34

# Conveyors-

V		
Brought forward-	ß	65.604.89
12 Conveyer & creens to Blower House +1.		
36 Bett 263 lt 6 to b. Vertical hight 59 ft	4	
540 JE of 36 Bet, nt 122	"10-80:00	
1100 ft. rubber edging.	330.00	
Head and tail fullings etc.	409.94	
239 ft at * 960	1294.40	
24 ft interior framing at \$ 200	57.60	
Odlere + idler bearings - 263 ft, at \$ 350	946.80	á.
5 Sante	600.00	571874
-mtn-40H.Q.		
#13 Conveyor. Top of Blower House = 1.		
36 Belt, 165 ft. C. t. C., 2 5 Dumpe -	12 1 C 3	
344 ft. 36 Bett, at 122	688.00	
688 miller adging-	206.40	
Head + tail pullage etc.	409.94	
165 ft interior framing, at \$ 2.40	396.80	
Edler vidler bearings-165 ft, at \$ 350	594.00	22 94.34
Mitn. 25 N.P.	- 1:5 - 1:5	V = 4-4.
4 Conveyor Bottom Blower House +1.		
36 Det. 166 ft. C. to C level.		
346 ft. of 36 Belt, at \$200	692.00	
692 milleredging-	207.60	
Head and tail fulleys, etc.	409.94	
166 ft interior framing - at \$2.50	398:40	
Odler + idler bearing 166 ft it \$ 350	597.00	2305.54
	. 4.	
mita IRALD	.20	

Carried forward

F 75.923.51

Conveyore-

Brought forward-7591551 " 5 Conveyor Dlower H. Tto Magnetite Magnets - Vertical height 83ft .-36 Belt. 367 ft. C. t. C. 748 ft. of 36 Belt, at \$200 1496.00 1496. rubber edging: 448.80 Head and tail fi 409.94 1 327 ft. at \$ 94 3139.20 40 ft interior framing at \$220 Odlers + idler bearings 367 ft at \$350 96.00 1321.20 Bents and Transfer Tower. 720

Motor- 40 H.P. 380 tone-

\*16 Cornego. Top of Magnetite Magnets.
36 Bett. 273 ft. G. tr. C. - 7 dumpe.
700 ft. of 36 Bett at \$ 222
1400 \* nibber sedging. 420.00
Head and tail fulleys, etc. 409.94
273 ft. interior framing at \$ 222
0dloss ridger bearings. 273 ft at 3 22
9 8 2.80
7 Dumpe, at \$ 13522

### --- Mata-25 H.P.

\*17+ 18. Petune to Magnetite Magnete. 24 Belta- 507 ft. each C. to C. Vert hit. 40 ft. 2056 to of 24 belt at \$ 125 2570.00 4112 ft of ruller edging-stead and tail pulleys commetted. 1233.60 584.00 430 ft., at \$800 3440.00 584 ft. interior framing, at 1200 11 68.00 1014 ft. idlere + idler bearings at \$ 300 304 2.00 B Bents-960.00 12,99760

# - Motor - 40 A. P. This drives both conveyors-

Cornied forward-

\$101367.43

## Conveyore-

	et .
Brought Lorwards	101,869,68
"19 Magnetite Magnetato Hematite Magnete	
24 Bett- 659 ft. C. t. C. Vertical height 72 ft.	
1332 ft. 24 But, at 124	1,665.00
2664 nulber edging-	799.20
Head and tail failing etc.	394.77
loomeyor rummay between buildings-	
345 ft at 800	2760.00
Odlers, etc. 659 ft, at 320	628.00
odlera, etc. 659 Ht, at 300	1977.00
7 Benter	840.00 9063.97
	• • • •
- motor - 40 A. C	
30 Magnetite Magnete to Bett carrying	
Concentrate from Hamatite Magnet	
to Blown House No. 2 -	• j *
	12: 0
24 Bett. 652 ft. C. to C. Vertical hight 5 f	
1318 ft of 24 Belt, at 12	1647.50
2636 hubber edging.	790.80
Head and tail failly, etc.	94.77
lanneyor runnong between buildings -	
338 to , at \$8.50	2904.00
314 ft. interior framing at \$200	628.00
314 ft. utnir fraung at 1222 Odlar viden hannige 652 ft. at 1322	1954.00 8121.07
	, , , , , , , , , , , , , , , , , , ,
- Mater - 25 At. O-	V
and the second of the second of the	y
* Top of Alematite Magnetes	· /
24" Bett - 273 ft. C. t. C 7 clumps -	
700 ft. of 24 Bett, nt \$ 120	875.00
	420.60
Head and Fail Pilling, etc.	
when the same weeken are	39477
278 ft. interior framing at \$200	5 4 6.00
Odler + edler bedringe - 1-73 ft, at 1300	819.00
7 'S' dumps, at \$106 th	746.68 "3801.45
Insta. 35 A. G.	
o o	

Corried forward.

\$122,353.92

Conveyors .-

B 127,953 72 Brought forward 22 = 23 = 24 Concentrates below Hematite Magneta-24 Belts - 296 ft. each Cto C. - level -1818 ft. of 24 Belt, at \$ 12 2272.50 3636 " rubber edging --1090.80 1776.00 adlere and idler bearings 888 ft, at \$ 300 2664.00 Head + tail pulleys combination, - ? 650.00 8453.30 for the three belts - S

- motor - 40 H.C.

\*25+ 26- to Dump- Hematite Magnete. 24 Belta-500 ft. each C. to C. level. 2028 St. of 24 Belt, at \$ 125 2535.00 4056 miller edging .-12.16.80 590 · witerin framing, at \$200 1180.00 aders vidler bearings- 1,08 oft, at \$300 30 00.00 410 ft. Conseyor outsitle, at \$ 8.22 3 2 8 0. . 0 Bents - \$600- 8 at \$1200 960.00 Head + tail pulleys, - combination 584.00 12,755.80 for the two belts -

- Motor-25 H.C.

\$7 Hematite Magnete to Dlower Ho \$2-24 Belt, 429 ft. C. to C. Vest. ht., 77 ft. 872 ft. of 24 Belt, at \$ 122 109 0.00 1744 " rubber edging. 513.20 Head and tail pulleys, etc. 39477 Conveyor running between build 33/ft. at 8 20 2808-00 78 ft. interior brain 156.00 6 Chants, at \$ 12000 720.00 5,691-97

- Motor- 30 A.C. 300 tone

Carried forward

149,254.99

Conveyors-

P149 = 15.71 \$8 Conveyor Top of Blower House \$2. 24' Belt 12/ St. Etob. 2 Dunks-269 ft 24 Belt, at \$ 125 <sup>8</sup>336.25 538 " rubber edging. 161.40 121 . interior framily at \$200 242.00 Head and tail putleys, etc. 39 477 Edler tidle bearings - 12 1 ft at \$ 322 -363.00 2 Dumps, at 4/06-64 213-280 17: PO: 70 - Motor - 20 N.P. (for = 28). #29 Bottom of Blower House #2. 24 Bett 214 ft. b. to b. Vertheight, 7 ft. 442 ft of 24 Belt at \$ 1.22 5 5 2.50 884 . wholes edging - 214 . interior framing at \$200 265.20 4-28.00 Head and tail pulleys, etc. 394.770 Odlers ridler bearings. 214 ft, at \$ 300 642.00 2282.47

- Tretor: 15 A.P.

30 Dimer Hrus #2 to lornentiste Retrok Hruse. 24 Belt - 780 th C. to C. land. 1574 th : 14 Belt rat \$ 125 3148 - rubber edging. lorneyr running lettings devilding. 780 to 1822 Head and tail pulleys, etc.

Head and tail pullage, etc. Edlers + idler bearings, 78 dt. at \$322

\_ Moto. 25 H.P.

Carried forward-

166.35 63.

13,08 6.67

1967.50

6240.00

2840.00

1 20 0.00

394.77

944.40

## Conveyors.

SI bonought fruendSI bonought fruendDistrict Rotal Armet.

24 Bett. 161 ft. C. t. C. - level.

33 6ft. of 24 Bett. at 182 420,00

672: notice from edging.

161: interior from a t 122 322.00

At ad and tall faulty, etc. 394.77

Odlers vidler bearings, (6) ft., at \$ 3000 Travelling Tripper

Moto- 25 N. C.

201.60 322.00 594.77 483.00 \$ 680.00 2471.37

tal .

166,806 2

Magnetite Magnete.

288,000 lbs, et 4. 11,520.00 lospher 76,800 - 20 15360.00

angle iron framework, chuteste, for the 160 lets of 3 high-176,000 lb, the

Angle wire framework, chutte etc. got the 80 etc of Chiph-+0 \$,360 lb. etc 8 14 7.20

Labor 288,000 lbs. at 3. 583,360 . . . 2.

Fabra unding 960 may note at \$62 5760.00 \$64.614.40

" Into - see list.

# Hematite Magnete-

256 state of 20 high. 5120 Magnete- 300 lbs. each

1,536,000 at 61440.00

lapper - 409,600.20. 81920.00

angle im in framework, sheets in alluter, etc.

1,020,416 2 2040 8.32

Labor on 1,536,000 lh., at s.

1,020,416 - --20,40 8.32

Talon, midig 5120 magnets, at 68. 30,720.00

- Les motor list.

# motore -

Hoist for Coucher Plant-	150 A.C.
Grant Rolls. 2 - 75 H. P.	150 " "
Frat dat EH P 10.	60
Decond 1 1 1	80 .
Third "	100 ***
Forth + Fifth 100 H. P. enc	
Jop Rulen Fred.	5 4 4
Bottom . "	10 " "
Skip Tip.	10
r r	19.1
6 Fine Griding Roller 150 H. P. es	d=900 H.G
- Druger House	
Exhausters - 2-25H. P. each-	5 o. M.O.
Furnace Olover.	15 -
Shaker Mechanism - 2.5 H. P. ea	el 10 · ·
- Rock Stock House.	a. 10 · ·
P. M. T. A. S. M. T. A. S.	
Poller Feeds - 3 of 10 H. P. each. Exhaust Fan.	. 30 ₩ Œ
- Leren House	25 4 4
Careen or use.	
Roller Fredo- 6 of 15 H. P. auch-	9 <b>0 H.C</b> ?
- Blower House" !.	
Olowers. 16 of 5 H. C. each- - Blower House #2.	40 H.G.
	1010
Blowers. 12 of 3 H. P. each. in Compressor.	60 A.O.
In tompressor.	150
1-8 1 2	1 100 110
4 Benaper Conveyors - 25 MG. each Ull Belt Conveyors - see list. 7 notes-	0.000
the welt conveyors - see list.	455.
* Xristinia-	27 20 W.C.
Difnamore 3230A	(0)
Magnetite Magnets 75.	
Gragnette Fragnets- 15.	
Dignamore- Pragnetite Magnets- 75.  Nembrite 4055A	-
40554	NV:-
100	*********
Day 4000 N.P. Dynamod, et 16º	- 64000.00
(3230 · · Thotas, · 1/82	2 28 140.00

122140.00 122140.00

.....

# 24, 36 and 48 Belt Conveyord.

Head and Tail Puller 24 Belt Conveyed  Coast inn- 2,260th #22  Coast inn- 2,260th #22  Coast inn- 2,260th #22  Maple stanes  Spata Stanes 2-2fe Being - 26 13.22  2-316 \$19.25 confett.	
Tail Million  Batt Short  Stel Chapter 237 3  Botts, Roda, etc. 100 32  Maple Stewer  236 Brangs #192 loot emplote  Lin on 4242 levet 3.	2733 711 2 <b>7</b> 5 270 3816 12 <b>7</b> 26 *394.77
Alexand Fail Pulling for 36' Bett Consept.	\$ 409.9 <b>4</b>
Ska 's and Tail Pulley for 48° Bet Comeyor-	456.22

above does not include cost of exections

# 24, 36' and 48' Belt Conveyor-

boot her lined fort of 25 including Order Bearing, lage Prices, Orders and Vertical Eding.

In 30-ft. length.

20-12" chafte-	240 lbe, set 3	720
40 Spidere-	360 3	1080
40 Bearings	360 4	1440
Bolta and pine		160
maple stares -		720
Chame and pack	ming-	420
120 Oil pluga Labor on 960 lla, 2	V	600
Labor on god lis., a	t 3-	28 80
2 Vertical Odleras		
Cast Orm	70lh., at 4	280
Steel Spindles-	6 3	18
Bretz.		25
Cast Oron Blocks.	/2 3.	36
Labor on 88 lbs., at 4.		3.52
4 Pluga.		.20
4		# 87.51

24'- Say 300 per ft.

48" " 1 455

boot of exection not included-

#### "&" Dumps in Belt bonneynes-24', 36' and 48" Belte-1 Shaft-168lh, at 3. 5.04 Spiders-220 " " 22 5.50 1.35 Maple 65 st. at 3000 1-95 2-2/2 Bearings - at 10 12 27.84 Labor on 388 lbs, at 3. 11-64 53.32 2 Shafta, etc. 106.64 36-1 Shafts 220 lbs., at 3. 2 Lpiders-Bolte-220- - 24 5.50 95 ft. Maple, at \$3000 -2-316 Bearings - at \$1900 Labor on 440lls. at 3-1-35 2.85 38-16 13.20 \$67-66 2 Shafte, etc. 8 1 3 5.32 48'-1 Shaft. 265lbs, at 3. 7.93 2 Spiders. 250 " 125 6.15 1.55 2-3/2 Bearings- at \$1908 125 ft. maple at 3000 3.75 38-16 bor on 5/5 lba, at 3. 15.45

2 Shafts, etc.-

73-11

146.22

9° Deraper bonneyors in Blower Houses. 1 Head and 1 Fail Pulley-2,002 lbs, di \$ 50.05 Channels, -augle in, sheet steel, etc. - 2,935 " . 2. 5 8.70 Shafting. 710 - - 3-21.30 520 - . . . 10.40 120.00 2-25 3 27.84 4. 348 76.32 Labor on 6267 lbs. at 2. 125.34 4 89.95 9' Daraper lamoyor costs \$9.58 per lineal foot, including Rope, Rope Clamps, Clampt Bolta, Filse, Wheels, Blades Rail, etc.

2 bonneyma in Blower House No. 1each 198 ft. long - 979.90 2 Head and 2 trul Pulleys - 979.90 396 ft. at 958. 3793.68

2-bonnyme in Blown House No. 2each 154 ft. long. 2 Stead and 2 Tail Pullup. \$979.90 308 ft. at \$938 \$1704.12

- E rection -

2 Dryers-Plater mider ste bottom a shoker and distributor plates, 285,000 lbs. # 7125-00 machine work -12,240 - 24 306.00 3 67-20 Street sheet and magles-390.40 19,520 . 2 Labor on same-390.40 Shalting-8,636 - 23 237-69 Machine work-. . 3 259.08 Stack and tank steel-340.00 17,000 " 2 Rabon on came: 340.00 Rope blampe -4.50 150 . 3 10.00 12 Screens-36.00 Bolts-267.86 assection in juite-54.00 2 Dust Chambers with stack, chute - 9,000lh : 180.00 Labor on came-180.00 2. 80' Exhausters (Buffalo). 410.00 , Blower for Furnace-110.00 2 Pyrameters with fixtures-100.00 44 doc Fire Brick at 2300 10 1 2.00 25,000 Red " " 8 == 20000 Foundation bolts. 1680 500.3 18.00 12,354.93 12,354.93

Exection -

St. 2 Motors - 25 H.P. Exhauster. 15 N.P. Blower for Furnace 5 H.P. Shaker Mechanism

# Rock Stock House

Three franch of 7 Chutes each-

Cartings -9686 lbs.at 5. 290.58 Chilled liners-31.17 Shafting-53.76 53.76 Steel keys turned botte ote. 96 . . 2.88 N. Drods, botte, mete etc. 385. 24. 10.59 7 Chuter at \$ 3000 each-210.00 B- 215" Bearings at "1392 each-111.36 4-27 147.84

3 Panela-

<sup>8</sup>3,462.27

1154-09

Greeting

- 3-10 H.P. motre- see motor list.

Furnace for Rock Stock House Lastings. 5.000 lb. atst. 1 2 5.40 Brets, Rode etc. -400 . . . 8.00 20,000 Red Brick, at "8" 60.00 4,000 Fire " . "2322 92.00 Firing Forle-12.00 Exhaust Fam ... 4 5 0.00 \$ 847.00

- 1-25 H. O. Motor - for Fan-

Erection.

Grunden House

- 1 dat of Relie martined proper - who 654 163558 Chees Plater -59.80 Gispania Rille 7050 Elin \$ 110 22 mille 0 8 660.00 193-16 225.2 -5.50 Hammered Friet Shalte-14,6504 659.25 Steel Shalts is the ve-40-3 4.10 2 14:30 Col R Steeril B. Stitt. 840A stat kattende belterate 3390 1130-3 Biote Sandantes To see 19.55 710-24. 3400.41 4130.11 8309.93 Labor on 92,683 lbs. at 5.2 - هناست ة Fundation Plates - 12,260lls. at 23-337.15 94 20 3768-31 39760, 20 701.56 ···44-08-1···· 9-22 Stul Shafts (3%)-225.5 675 32 ft. q. Chamala. 571-2 320 main. " -Steel keys, donale etc. Delte, rode, etc. . 90 30 0 263 2 723 162.08 5. felle in me in 424.47 -504653 262.39 350 ft. Vine Rope 42.00 42.00 9113.55

6 Rolls.

54,681.30

Drinding Stone: -

6 date of Fine Granding Rule. Fred Mechanism und below Rolls. For 1 Stat of Rolls. Dray Oron Coastings-Us. 19622 4405 - 1.49 a .. 9 4 198 - 09.48 (-2-22 + 3. No 121 . 5 2298:2 44.16 angle Dron + Steel Plate. 1. +. - 053 62 2.18 Steel keys, termed folls, etc. He-3 -.22 Bolt rible with ster. V18-31 - 499 & prochett and laboris-13,00 ₹9. ₹ 4 276 Being th 1035 42.34 3-4 4442-4 7 17068 - and the second of the -\$3 Q.TIL 6 Rela-2020.26 Tame - Bulle sacone dist. 337.4 337. 6

6 Fine Flounding Rolls - melu tightimma Toughtimen chute believe relate let, rollinged, and whote 34 004 56,701.56 store wells to roller fred . -Musicipal La 2 112: 32 ct. o " Chammers." 7-1.2 11-2 3 brustim -- tee here down to. 70 € ز ب معال سلم الدين 203 13 723 6- 120 H. P. Dritne see motor lot os: Best to Time Person -1.60 4113.55

مندي ه

`a+a^1...

1152 Screen Plates, arranged in	
6 groups. Each group loutaining	
32 banks and soch bank 4 sets-	
6 high - making 192 sets	
0	
bast arm Hoppers and Gates where	
Screen for Roller Feed 192 in	
munder- Atoppers 5-0'long- 370 le each	
(No machine mote) 71,000 lbs. at 24.	1776.00
1344 ft. 10 (Cipe at 4 2 len 60 f (53,760 lb)	3419.20
192 C. S. Pape ander 3,840 lbs., at 25-	96.00
36 2,880	72.00
600 H 3 7 Abulting 10 +28 . 35-	160.70
6 sets of functioning at 36th	21600
48 mitre 1089	480.00
180-27 Bernie at "102 complete-	1900.80
laborer alma and labor each group	
of Levere formed of #14 wheat wow	
12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
9870-6 89,220 66,22	1184+0
1152 decement 50 etc.	57 6.00
Derson France 46,080th, de	921-60
Dear burn. 190th. 48. 9,120 . 28	226.00
1 240 - 6 1,440 - 16	3 6.00
Tala m 10,560. 13	316.80
176,208	3424.16
	14,007.66

# Blower Stone No. 1 .-

16-5H.P. Motre- See Motre Lit.

## 32 Blowers.

1 Blowers-	Lh-	æ	•		
	1411		2822		
Sheet Steel and angle Eron Blades-	555		670		
Castings-Blade Coenters-	108	24	270		
Slate I Shoot Steel-	579	2	1158		
Desuise - 5 st 1700-			3500		
Bearings - 5 st 1722 - Bracketi-bast Oron.	180	24	450		
Stanger - "	70	24	1 75		
Stanger - "			2035		
Dear Cour Court Drown.	40	24	1 00		
· Steel-	310	•	620		
	180	3	540		
Shafting-			1 2340		
Labor on	3213	3	96.39		
			2 1 9,79		
. A:	Un-	+	*		
Bin-	1585				
Short ofted and angle drown	1363	•			
Ration	12650				
Churte le					
	40		12000		
stoppe					
bout from Commercian	175				/
show and show -	370	_			- :/-
Short Steel and angle Onne true Si			1550		120
Cout from at each 3-	75				- NE
120 yds. Sheeting -		8	960		
Labor one	6610	5	19830		•
Labor one	• •		34340		
_					
1 Bin, Blown, air Pipe and					
lemesting behuter - 156	3.19-	٨,	6 022.0B	18012	08
. 32 Bin.		•	402206		

### Blower House No. 2-

24 Blowers-

1 Bim, Blown, air Pipe and Commercing Chutter: \$ 563.19

24 Bin

13516.56

- 12-5 St. P. motore- see motor list.

- 6 rection-

#### Dundedand

12-28-01

# Structural Work - Houses-

Coucher House.	957	95 time.	
Girden in brusher House	82		
Treatle afaproach + Extersion.	102		
Dager House.	147	ø	
Rock Strok House + Lean-to	158		
Fine Grinding House	218		
Derson House	331		
Blown House #1-	234		
Magnetite Let met Abuse	485		
	388	¥	
Blower House #2	182		
lamcentrate Stock House	125	•	
bookstra House	137	•	
Engine offerer .	80		
Boles .	80		
Store House	60	•	
	087	tone.	

3087 tome exerted at \$80.00 \$246960.00

Concepted Governg, "18 and "20. 31 58 7.00

Concepte 1,206" Comple, not 2500. 51 51 30 00

Dry Hall 2800 curyde, not \*132 +200.00

Bornerote 3505 cm yde, not \*322 1051 300

Atany Masony, 3800 curyde, at \*122 1450 000

Comple Print. 1 3800 curyde, at \*122 1450 000

Canid formed \$ 532913.51

15-28-01.

Brought forward.

332,913.50

Machinery-

Grant Roll, 7'x7: 5 Dete, 5 x 3 Rolle.

Hoist. Tipping arrangement

Hopets. Roller Feeds.

Druser House Rock Stock House

Fine Grinding House. Screw House.

Blower Storme # 1.

Magnetite Magnete-Nematite

Blower House Chuter-Conveyore to b. Belte + Scraper Conveyors,

including Rumbrays .motors- 3230 NB, at \$ 1800 Generator 4000 H. P. at \$ 16 00

Steam Plant- 4000 H. P .-

Oiling System. Electrical appliances,

4 Steam Shovels, at \$ 3000 00

35-32 Rock Drille, at \$ 25000 mining Supplier 50 mine Skips, et \$ 1600 exch.

· lane . \* , = 5 00 1 Two air Compressors.

Small machine Shop-Erection of Machinery.

Total -

12354.93 43 0 9.27

56701.56 14007.66 18022.08

64614.40 260976.64

13516.56 150000

177510.32 58140.00 640 00.00

140 0 0 0.00 2000.00 800000

15000.00

12000.00 8750.00 3000.00

8000.00 7750.00 5000.00

2500. 0

69123.401095,998.32

1428,911.82

Mr. Edwar:

been able, is based on actual cost of material funished to Stewartmille, addin 2 or 3 cents per bound for machine work

according to the clase of work.

The bonneys Runbays have been calculo ted not be east perspend, and selements is the best of the beauty of the length of the summer has been gotten by carefully laying out the manual has been gotten by carefully laying out the manual has been gotten by carefully laying out the manual has been gotten by the grand to the gound is all and making the maje of all litt

consigns at 13. " of which will little side I be lett only so decided "6500" can be de inter them the etimat.

Time thinding Rolls one franch at cost, a boutt in Laboratory train landon, Sft Rolls, who plans stelling bounder Plant are frequent at 5 cents per pound, - complete

Structural Work (House) is figured at \$80.22 per ton verted, and as the Blamer. House at Stewarthille are almost identical with most of the house for Runderland O in Taken items as one bases of adoutation, and doing 25 from second of plates height attemperature to the second of the

Atto VI - ne, O blove taken there as a basis. Bloomer House i at discountiville: 56'x 148'x 51' - 150 time.

Slower #1- 56x198'x 52 224

magnetite Sep Afor 56 x 315 x 12 445 . Hembtite " 56 x 315 x 52 528 .

above is made for comparison.

(3-)

Excavation with which is also included levelling is taken at 25 cuts per an you. Dry Wall at \$122, -boncust at \$322 per and Acady Masney at \$222 per myd

The amount added for exection of machine, in however the have put at \$2,23 to hand this?

No allowance has been made for freight, duties, timber in stains and flower, for RR tracks in the Plant proper, for hundling and from RR to coal state, for water for Briles and Engine - or for Energy na to due.

Should not think this plant som possibly he excited for less than 1,475,000exclusive of freight and duties, unless considerable change can be made in the amount of machiney to be used, sing of housel ste.

This estimate is based on handling 5,000 tons of ande one every 20 hours, and no oblowing in view of and handle ha

By cutting with the not what from magnetite magnetic translation in the state of the not what health determined in the state of the same of the state of the stat

7951-77

24 Bett 420 to c. to c. level. 674 tt. Batt, nt 1 124 1748 - muller edging , at 21 casts. Head and tail pulling frames, shafts, 349.04 ted was borning + wheat was 235 ft. 160 th. 2 50 800 pm fs. 270400 92 ft. of wither framing, at \$ 222 7 Bente, somege \$120 se and.

Odler willer bearing at +30 th, -at \$ 3.88

- motor - 2004. P.

- motor-sook. O.

"3 Done to Rock Stak Home 36 6 et, 353 ft. e. te vet lit soft. 680 tt Balt, at 12 m 1 3 6 0.00 1360 - maller edging, at 21 mite. 2 86.60 Head and tail July, etc. 378.66 503 tt. at 10 68. 2 9 018.80 30 th. of within haming at 122 7200 adlere, idler bearings, etc. 356 ft. at 1580 1198 60 3 Bents, average 120 sock.

36000\_ 6543.85 Cossied forwards --- 12 / 143.14

184 00

129000

Conveyors.

Brought Longward 2 lamouga in top of Pock Strak Struck 1 343.14 36 Bett, 161 ft. cltoc. level. 356 ft. of 36 Belt, -at 12 ce. 7 : 2.00 712. Author edging, at 21 meter 149.52 Head and tail pulling et. 378.65 386 40 Odlers + idler bearings - 168 ft. at \$ 360 579 60 1 Travelling Tripper -680 00 - Motor- 23 N.P. "5. Comeyor whattom of Rock Stake House. 36 Best, 230ft. c. toc, not lit. 7 ft. 482 ft of 36 Belt, at # 280 9 64.00 964 rubber edging st 21 cents. Head and tail fulleys, etc. 234 ft interior framing at 1242 202.44 3 7 8.65 56160 Edent idla bedringe , 254 ft, at \$3 60 84240 - Frata 20 H.P.

\*6 borneys from Pork Strok Atmee
to Fine Chindren Struce
36 Bett, 255 ft a to a meet like of it.
524 ft of 36 Bett at \$ 282
1088 nibber appig -21 cente.
Head and tail fully, sta.

Lange money lateral hilding 228400

238 ft, at \$ 98 228400

20 Lateral framing at \$ 220 40.80

Collect Adden training 255 ft at \$ 362 918.00

3 Barts, at \$ 120 th each. 360.00

- mita. 50 H.P.

arried forward \_\_\_\_\_ 324 86,73

220.08

378.65

5250.32

(2)

Conveyore.

3 2428.73 48 Bet 158 tt.c. t.c. 3 3 8 870 ft. of 48 Belt, at 1212 925.00 740 muller edging out 21 cents. Asad and trail pullings, ste. 15 5.40 414.19 158 ft interior framing at \$230 441.40 Tollers and idler bearings 158 ft at 1488. 718-90 3 '5" dumps, at \$ 12011. 3 62.64 30/8.53 - motor. 25 H. C. 8 Comeyor Betton Fine Griding Rolle 48" Batt- 191 ft atra. - level. 1 396 ft. 48' But nt \$ 2.52 ; 9 90.00 792. Rubber edging, at 15 cents. 118.80 Head and tail pulling stex 414.19 191 pt. interior framing not \$230 534.80 Edler + idler bearings . 4 t. at 4 25 8.6 9.05 - Motor. 20 H. C. "9 Conveyer Griding House to Love 48 Bett 3+2 ft. Ct. L. Vert. lit. 77 ft. 698 tt. 48 Bett at 1250 1745.00 1396 " mabler adquing - 15 rents. 209.40 414.19 3494.40

--- moto- 100 H.P. 1,000 tows.

30 ft interior framing it 228

Odlan + idle bearing

6 But -120 4

10 de anied formand - \$ 46597.19

84.00

155610

72000

8 223 09

٠,

Conougns.

4659719 "10 Conveyor - Top of De 48 Bett- 229 St. C. # 8. 5 5 du 572 lt. 48 Belt, nt \$ 250 4 2 0.00 1144 rubber edging - 15 cents. 17 1.60 Head and tail kulleys, etc. 414.19 Onterin hamme 22get lat \$2 80 641.20 Edler + ider bearings = 29 ft. at 14 38 104195 5 " S" dumps at # 1208 60440 4303.34 - Motor - 30-4. P. I bonneyon Return Bett Lorene I to Sunding House .-36 Bet, 572 ft.c.t.c. West. Lik 33 ft. 1182 ft. 36 Belt at \$ 288 2316.00 2316. rubber edging. 15 cents. 347.40 Atend and tail fully, etc .-378.65 310 dr at 29 55 2976.00 262 ft. interior framing at 124 628.80 Odler + idle leaving \$72 ft, at \$350 4 Bent, at \$1200 lead. 2059.20 4 8 0.00 9 18 605 - motor 30 H.C. " Lamen Fines lelow & reens. 36 Bet. 252 ft. c. trc. lend: 5/8 St. 36 Bast at 1 2 00 1036.00 1036 rubber adging - 15 met.
Abad and tail fulling sta.
252 ft. interior framing at \$2.22
Eddew rubber dearings 252ft. at 362 155.40 378.66 604.80 9 . 7.20 3082.05

\_ mta- 20 A. P.

Samied friend 63 168.62

Brought forward-63 168 63 & Conveyer Lerens to Cloude House ". 36 Best 263 St.c. tre, aut. ht. 59 ft. 340 ft. 36 Bett, at \$ 220 1080.00 1080 " rubber adging, at 15 sts. 162.00 Alead and tail fulley etc. 378.65 Conveyer running letween buildings-24 ft interior framing to 1222 Odler vidler haring 263 ft, at 13 12 2 294.00 57.60 94680 5 Bents, at \$ 120 seal. 5519.05 600.00 - motor. 40 H.C. Jahonveyor. Top of Blower House "1. 36" Beet 165 ft. C. to 2, 3'S" dumps-344 ft. 36 Belt, at 122 688.00 108.20 688 " nubber edging, at 15 water 27 2.65 Alexa and tail pullents etc. 165 ft. within framing at \$200 39 6.00 Odlere vidler bearings, 16 Fit. at \$3 50 594.00 249 1.89 5 8 8.04 3 5 dumps, at 1 10 51 - motor. 25 H.P. 15 Conseyor Bottom of Blower House

36 Bett- 166 tt. c. tod. - level. 346 ft. of 36 Batt, at 1222 692.00 103.80 692 . welen edging . 18 sts. Head and tail fully, as 378.66 166 ft. interior framing, at 250 298.40 599.60 Edler idle bearings, 106 ft, at \$368

- motor 13 H.P.

2170.45

39 Brought Loward 73350.02 "16 Conseyor. Blomes Struck"1 Tto Magnetite Magnets-36 Belt, 367 It of to a west lie 83 ft. 748 tt. of 36 Balt, at \$ 222 149600 1496. I rubber edging - 15 ste. Head and tail pulleys, etc. 224.40 378.65 Conveyor running betinger boulding 39-St. + 1950 3139.20 40 ft interior framing at # 222 Odlar + roller bearings 367 ft. at \$363 96.00 1826.20 Bente and Transler Tower 720.00 7875-45 -- Ento- 40 N. P. 380 Ene-"Thomas Top of magnetite magneti-36 Bet. 278 H. c. tre. 7 dumper. 700 ft. 36 Belt, at 1 2 22 1400.00 1400 . rubber edging at 15 cents. 210.00 Atad and tail fully 272 273 ft intern framing at 12 20 Others and colles bearing, 272 ft. 3 78.68 655.20 94, 272 ft at 352 982.80 7 Downste, at \$ 11068 77476 440 1.41

#### - Mater - 25 A. P.

98 Magnetite Magnete to Hematite Magnetio 24 Bett- 659th et c: wet to. 72 ft. 1832 to 24 Best, at \$ 156 1665.00 2664 . malier tolging, at 15 cts 399.60 Head and tril pullege, etc. 34 9.94 345 At. - 18 18 18 1760.00 314 ft. interior framing, at \$200 628.00 Odlen + idle bearings \$59 St. at \$5 25 1977.00 7 Bente-1201 840.00

- motor - 40 A. P.

93746.42

8619.54

Conveyors.

93746.42 Concentrate from Hematite Mag to Blower House \$ 2. 24 Bet, 652 ft. a. trc., witht. 5 ft. -1318 to of 2+ Belt, nt \$ 125 1647.50 2636 . rulber edging . 15 sts. 395.40 Acad and tail pullage, etc. 349.94 338 ft., at \$ 8 de 2704.00 314 ft interior framing at \$200 628.00 Odlers vidler bearings - 6 52 ft at \$ 320 1956.00 7680.84 - motor. 25 H. P.-30. The of Hematite Magnete -24" Cett 273 ft. c. to c . - of du 700 ft. 24 Belt, at 1/25 875.00 1400 . rubber edging at 15 cts. 210.00 Head and tail bulleys ett. 349.94 273 ft. interior framing, at \$222 Odler vider bearings, 276 ft., # \$220 7 "S" dumps, at \$9 630 54600 8 19.00 673.40 3473.34 - Mater - 35 A. P. 31, 23, 22 boncentrates below Hematite Magnets .-24 Bette, 296 ft. each a to a, level 1818 th. of 24 Belt, at 2128 2272.50 3636 . interior framing at 200 545.40 177600 Odler + idler bearings, 8 88 ft. at \$ 22. shead + tail fullage combination. 2664.00 7907-90 for the three betts. } 650.00

- mater. 40 A.P.-

barried formed \$112808.30

## Conseyns.

Brought forward-112 808.50 24, 25. Ja Dump .- Hematite Mag 24 Belte - 916 the sand a tra- Much-1340 ft of 24 Balt at \$ 135 1675.00 2680 : nuller edging est 15 st. 590 : intiin framing at 12.28 402.00 1/20.00 Edlers + idler bearings, 600ft, at \$320 1890.00 40 ft. Commer intride at \$ 820 320.00 Head + tail pulleys combination 564.00 6031.00 In the two lette. - mitn. 25 H.C. 26 Hematite Magnete to Blower Atr. #2-24 Bett. 429 the toe-vert hit. 77ft. 872 ft of 24 Bett at \$ 125 1090.00 1744. rubber edging. 15 ats. Head and tail pulley, etc. 16 1.60 349.94 letine buildin 351ft., at \$ 800 2808.00 78 ft. interior having at \$ 200 15 6.00 Edline + idler bearings, 4 9 ft, at \$ 322 1287.00 6672.54 720.00 - motor. 30 A. P. 300 times 27 Conneyor. Top of Blower Ho. -2 24 Bell, 121 ft.c.tre. 2 Da 289 ft 24" Belt, at \$ 132 9 8 6.25 538 . subber edging - 15 sts. 80.70 242.00 Head and tail pulleys ste-349.94 Odlers vidler bearings 121ft, at \$300 363.00

- moter- 20 H.P.

2 Damps, at 1962

barried formed \$12707688

192.40

1564.29

## Conveyors.

Brought Loward-127076.33 28 Bottom of Blower House " 2-24 Best, 214 ft. c. trc - west lit. 7 ft. 442 ft., 24 Delt, at \$132 55250 884. mabber edging at 13 cuts. 214. interior framing, at \$200 18 2.60 428.00 Head and tail pulleys, etc. Odlers + idle bearings, 2/4 ft., nt 132 349.94 642.00 2105.04 - motor. 15 H. P. 29 Blower House 2 to Concentrate Stock House: 24 Belt, 780 ft. a to c., level. 1574 ft. 24 Bett, at \$ 120 1967.50 3148 ft rubber edging, et 18 cente. Conversor aumory lettien buildings, 472-20 1780 ft., at \$8 ee 6240.00 Head and tail pulleys, etc. 349.94 Edlers + idler bearings, 780 ft, at \$ 300 2340.00 10 Banta, at \$ 100 000 1000.00 12369.64 - Motor. - 25 A.P. #30 Conveys in Roof of Committee Strak stone: 24 Belt, 161 ft. c. to C., level .-336 ft. of 24 Balt, at \$ 126 672 " " rubber edging, at 15 mits. 161 ft interior framing It \$ 2.00 Head and til fulleys, etc. -349.94 Edlere + idler bearings, 161 ft. at \$ 388 483.00 2325.74 Travelling tripper-

- mota - 25 H.C.

\_943876-76

10

## Conveyore.

- moto. 40 A.P.

Motor Housings . 28 st 120 22 seeks \$ 560.00 560.00

156797.66

Sec. 200

1 -

Magnetite Magnete.

160 sets of 3 high. 80 " . 16 " . . 960 Magnete - 300 obs. each -288,000 lbs., sta 11 \$ 20.00 beoplan - 76,800 " . 20. 18 360.00

angle in framework, chutte, etc. for the 160 externs shiples 176,000 lbs., st 2 3620,00

angle in framerik, church, 22. for the 80 sets of 6 high - 407, 260 lks, 22. 8147.20

Latom 288,000 lb. 42. 57 60.00 • 583,360 42 11,667.20

False, - 400 Maguete, at 31, 960,000

- Moter. See moter list.

no exection

Alematite Mugnets.

256 Note of 20 high. 5/20 Magneter 300 lbs. each. 61440.00 Copper-409,600: , 220 81920.00

angle iron in framework, sheets in shuter, etc.

1,020,416 lbc, at 2 20408.32

Later one 1,536,000 lite. str. 30720.00 str. 1,520,416 str. 20408.32

Labor, minding 5/20 Magnete, at 22 10240.00

motor.

No exection.

# motore-

Street for Course Plant.	150 N.C.
First Set 5 ft. Rule.	60
Second	<b>e</b> o
Third	100
Fromth + Fifth . "-100 dt. P.	med: 200 · ·
The American American	9
B tem.	40 - "
Ship Tip-	10 " "
6 Fine Grinding Rolle-150 H. P.	and 900 H.P.
- Dryen House:	
Exhausters. 2.25 H.P. each.	50 A.O.
Furnace Blower.	15
Shaker Mechanian 2-5HPen - Rock Strok House:	dr 10 · ·
Exhaut Fan.	2 <del>5</del> A.O.
- Deremotome:	25.54.0
Roller Feeds. 6- of 15 N.P.a.	ach: 90 N.C.
- Ocidente Software - 10	
Blowers - 16. of 5 St. P. sack Blown House 2.	80 M.Q.
Blowers. 12. of 3 H. G. each-	GOA.CP
air Compressor, et mine.	150
4 Deraper Conveyors - 28 H. P. ene	1-100 MG
Ou Bet home list	935 AG
all Bet bonoghe- en list.	-3,030 A.C.
4:40.	*0
01	•
Magnetite Magnete. 78 Hematite 780	
Hematite 750	
4,005	
4,000	

Ray 4,000 M.P. Dynama, at \$1628 \$ 64000.00

1 3,000 . - Mittal . \$1828 5400 9.00

\$ 118,000.00

## 24', 36' and 48' Belt Conveyor.

Head and Fail Pulley for 24" Belt Conveyor.

Coat iron. 2.200lb. 2 56.28
Steel Shefting (476 + 246) + 26 - 12.78
Brothe, Ind. ste. 135 - 2 2.70
Maple Steene. 2.70
Spine Steene. 48.00
2.24 Coarney, complete, at 12.28
2.346 (Daning, complete, at 12.28
2.346 (Daning, complete, at 12.28
2.346 (Daning)

Fail Pricery Cart inm! 1094 lb. 28 2735 Steel shaft. 237 - 3 7 11 Bolta, rode, etc. 100 - 23 2 75 Maple staves-270 2-34 Bearings, complete, at \$14.00 Lalm on 42.98 lbs at 2.6 28 04 0 6 45 349.94

Acad and Tail Pulley for 36' Belt Conveyor. \$ 378.65

Head and Tail Pulley for 48' Bett Corneyon 1 414.19

above does not include ext of exection .-

24; 36° and 48° Belt Conveyner

- Cost per lineal fort of 24"including Edler Bearings, Augle Pieces, Edlers Luck Vertical Follows.

On 30 ft. length.

20-14 shapter	240 lbs. at 3.	7.20
40 & piderer	360 3.	1 0.80
40 Bearings.	360 4	1440
Orte and Prine .		1.60
maple Staves.		7-20
Chairs and Pasking.		4.20
120 Oil Plugs.		6.00
Labor on 966 lle.,	Jt a.	28.80
2 Ventical D-dlers.		
Cast Drm.	70lh. at 4.	280
Steel Spindles.	6 3.	18
Brets.		25
best Oron Block	. 12 ib., et 3.	36
Labor on 88 lbs., at		3. 52
4 Poluge.		- 20
<b>(</b>		\$ 87.51

24"- Say " 350 per ft.

36" 1 358

48" 491 .....

boot of exection out included .-

## 2° Dumpe in Belt Conveyore. 24', 36' and 48' Belts.

Fr. 24 Bett: 1 Shaft: 1 Shaft. 1 Bette: Maple: 65ft. 2.21 Benings, a falm on 388 lb	mobilete at \$ 12.28	5.04 5.50 1.95 1.95 24.56 9.70 \$ 96.20
For 36 Balt: 1dhaft. 2 fadara Botta. 93 ft Maple, at 2-34 Barray in Talan on 440 d	220 lbs. at 2. 220	6-60 5-50 1-35 2-85 2-8-04 11-00 5-5-34 8-11-0-68
For 48 Belts 1 Schools Specifica Market 125 ft Market, at 8 2-34 Barring, at Labor on 316 des.	263 lbs, st s. 200 · - 24. 302- 148, complex. st 22	7.95 6.15 1.55 3.76 18.94 1.90 60.44

## 9 Deroper Comogno - Blower Houses:

1 Head and 1 Trail Publing: \$ 5 c. 05 2,000 (100, 12 25 aron lessetings. Shannels, ingle in, sheet stel ste. 2,935 lb. st 2. 58.70 Shafting. 7/0 les, st 3. 21.30 10.40 Gears-120.00 2-212 Bearings, at 1223, complete. 24.56 4.34 56.08 Labor on 6267 lbs., at 2. 12 5.34 466.43

9 denaper Conveyor cost \$ 9 25 per lim. ft., including who, who clamps, blamp boths, files, wheels, blacks, raid, ste.

2 bonneyors in Blooms House 1, each 198 ft long. 2 Head and 2 Fail Pulley. Conneyor, 396 ft, no 1925 379 2.68

2 bomeyore in Blance House 2, Look 134 fe long 2 Head and 2 Tail Pullage. 932.86 Consegor, 308 ft., at 49 st. 295 a.64

2 motor Housings, st 20#2

# 8,650.04 # 8,650.04

- motors - see motor liste.

## Dryen House.

2 Drugera:	
Photos in sides, etc., bottom shute,	
furnace custings, shaker and	4
distributo plater - 285,000 lbs, et 2.	5700.00
Costings, muchined 2,240. " 22.	3 0 6.00
Castings machined . 2, 240 - = 22.	367.20
Sheet steel and surgles. 19,520 2.	390.40
February same. 19,520 = + 2.	396.40
Shafting - 8,636 22	237.69
Bhafting - 8,636 22 Machine work 8,636 3.	259.08
Stock and tank steel - 17,000 2	340.00
Zalon on same - 17,000	340.00
Pope Clamps 150 3.	4.50
Take on same	10.00
12 Bruno.	36.00
arte-	267.86
asherter in joints.	54.00
2 Dust Chambers will stock + chute : 9000 at 2.	180.00
Labor on some . 9000 lbs sez.	180.00
2-80° E-chausters. (Buffels.)	410.00
1 Blown for Furnace.	110.00
2 Pyrometice, with firstines.	100.00
44, 800 Fine Brick, at \$235	1012.00
25,000 Red " " 882	200.00
Foundation Bolts . 360 lbs, nt 3.	16.80
Firm tools.	18.00
4	10929.93 10929.93

5 Dust otherings for Motors, nt 202 100.00 11,029.93

### Erections

- motors - see list.

2 - 25 M.P. for exhausters. 1 - 15 M.P. . Iloun for funce. 2 - 5 M.P. . Shaker medanism.

## Rock Stock House.

1 Panel: 7 Chutes, with Hote ... t 402 280.00 3 Panels- 18400

Entition
Turness for Rock Stock Stock:

Continger - 5,000 blantis 12 5,00

Both words, sto. 400 . 2. 8.00

20,000 Red Brick . 1 822 160.00

4000 File . 1232 92.00

Filing Took. 1200

Enhant File. 1200

Sunt Storing , for Mater. 20.00

-1-25 N.P. moto- for Fam.

Existion-

56,449.38

#### Grinding House -6 Date of Fine Granding Rolls. 1 stat of Rolls- Machine proper-Gray From Castings - 67, 033 lbs. st 24 167628 Chilled Plates. 96.46 6 Spacing Rolle - 7,050 lbs. at \$ 11000 6 60.00 Brouge Castings -193.16 66 9.58 Stree Shafte- (3 %) P. S. Q. Special Belit . 845 . . . 219.70 Steel kups, turned botte etc. 1130 - 3. 33.90 Bolta, hode ste. 710 - 13. 19.53 3 4 9 8 . 41 Labor on 96,129 lbs, at as 4998.50 Foundation plates. 12, 260 lbs. at 22. 33 7.15 9 6.70 3 9.60 Stul Shafter (37) 32 t. 9 chamels. 7 11.42 26 4 Ltul keys, dowels, etc. -90 Bolto, Lode, etc. 7.33 164.58 Labor on 5146 lle at 22 267.59 350 ft. Vine Rope, at 12 9408.23

6 Rolls ---

44.05

1.89

1.98 6.48

44.16

. 33

490

13.00 40.92 177-68 334.79

Drinding House.

6 Dete of Fine Guiding Rolls.

below rolle, for I set:

They Dron Castinge 1762 lbs, at 24 Chilera

Bronge

2208 -

Street keys, turned both ste. 11 . . . Bolto, rode, minte to - 178. . 23

Sprobete and Chains. 4-27 Praning - complete at \$102. There are 4442 May at 4

6 Rolls.

6 Fine Granding Rolls male and below machine, fred roll, fred well meelamin:

\$ 58 458.12

58,578.12

6 motore- und 150 H.P. - me list.

#### Darama.

1152 screen plates, manged in 6. groups. Each group continuing 32 bunks and such bunk 4 ests I 6 high-making 192 ests.

bast in hoppers and gates alone serves for willer feed - 192 in mules hoppine \$-0' long - 3.70 lle each - (mo machine work) - 71,040 lbs. at 24 1776.00 1344 ft 10 pipe at \$4 30 less 60 1° (3 3,760 lb) 2419.20 192 C.O. pipe ande. 3,840 lle et 22 96.00 36 " " stande. 2,880 - - -72.00 660 ft. 276 Shafting. 10,4 28 " " 02 2 60.70 6 me dpm Graning 216.00 48 " Mitre 480.00 180. 2 to Barriage, at \$ 1029, amplita. Chutes where and below each game of screen of "10 sheet in me in the 1814.40 4870-6 59,000 Ma, at 2. 1132 Lenus, at so with walno 576.00 dans France. 46,080 ele, 22. Ganbau. 190 lbs: 48. 9,120 . . 22. 22 8.00 · 240 - - 6. 1,440 - - 55. 36.00 10,560 - - 3. 3 1 6.80 174.208 - . .

6 Duck otherings for motore, at 1500

14011.26 14011.26

--- 6-15 N.P. Motore - see motordist.

- No evention -

## Blower Stonge #1.

## 32 Blowers:

Fr. 1 Blower:	
Sheet Steel + angles. 1411 lbs. at 2.	28.22
Blades 335 · · .	6.70
Costings Blade Centers, 108 24.	270
Alata Alan total = 570 mm	1158
Bearings - 5 at 17 28	
Brasheti Cast Orm 180 - 24	35.00 4.50
Hanger " 70 " " 26	
Sens.	1.75
Stean Case Cast Orm. 40 24	20.35
Steel 310 " 3	1.00
Al It	6.20
Shafting. 180	5.40
9.1	
Labor on 3213 les, at 2.	96.39
	B219.79
18:	
1 Bin:	. , ,
1 Bin: 1585.2	. , ,
Sheet Steel + angles. 1585-2	
Sheet Steel + Angles. 1585.2. Angles. 1016.2. Batham. 650.2	·
Sheet Steel + Angles. 1585-2 Angles. 1016-2 - Batellower. 650-2 - Chutalelm: 1609.2	120.00
Sheet Steel & Angles. 1585-2 Air frips. 1016-2 Bet blown. 650-2 Chutchelmi 1609.2	·
Sheet Steel + Angles. 1585-2 Angle 1016-2 Ant lemm. 650-2 - Chuts lelm 1609-2 40-2	·
Sheet Steel & Angles. 1585-2 Angle 1016-2 Bat Home. 650-2 Chute Jelme. 1609-2 40-2 Orphes. 590-2 Coast Door Connection. 175:24	·
Sheet Steel & Angles. 1585-2 Angle 1016-2 Bat Home. 650-2 Chute Jelme. 1609-2 40-2 Orphes. 590-2 Coast Door Connection. 175:24	120.00
Sheet Steel & Augles. 1585-2 Displayer 10(6.2 Ballower 650.3 Chutabeler 1609.1 40.2 Hoppin 590.1 Broat Oron Commetter 175.24 Stephen 370.24	·
Sheet Steel & Angles. 1585-2  Air pipe 1016-2  Ast llewer. 650: 2  Chutchler 1609: 2  40: 390: 2  Court Dron Connection. 175:25  Atopper. 370:25  Sheet Steel & Anglest and 5: 10:25	120.00
Sheet Steel + Angles. 1585.2  Anglemen. 650.2  Chutalalmi 1609.2  40.2  Sport Drom Commention. 175.24  Affapar. 370.24  Sheet Steel + Ampapar. 370.24  Sheet Steel + Ampapar. 370.24  Sheet Steel + Ampapar. 370.24  The Steel + Ampapar. 370.24  120.2504 Aheatmap. 22	120.00 1550 9.60.
Sheet Steel & Angles. 1585-2  Air pipe 1016-2  Ast llewer. 650: 2  Chutchler 1609: 2  40: 390: 2  Court Dron Connection. 175:25  Atopper. 370:25  Sheet Steel & Anglest and 5: 10:25	1550 9.60
Sheet Steel + Angles. 1585.2  Anglemen. 650.2  Chutalalmi 1609.2  40.2  Sport Drom Commention. 175.24  Affapar. 370.24  Sheet Steel + Ampapar. 370.24  Sheet Steel + Ampapar. 370.24  Sheet Steel + Ampapar. 370.24  The Steel + Ampapar. 370.24  120.2504 Aheatmap. 22	120.00 1550 9.60

Bin, Blown, air Pipe and -bonnesting Chutes - 1363.19

16 Moter Housings, at \$1500

18,262.08 /8,262.08

- 16-5 HP. motor- see motor list.

Greation-

Blower House #2 ..

24 Blowers:

1 Bin, Blower, air Pipe and Commesting Chute: \$ 563.19

24 Bins. \$ 13316

Motor Housings, at \$ 1500 18000

13,69656 13,696.56

- 12. 5 H.P. motor- see motor list.

-Erection.-

Standard, with Oil Pocks	ita + -6-	-llands	
		* ***	
Cast Drone, 75 lbs. at	3		•
Ballitt. Special, 3lbs. at	30	90	
Stal down fains . I ll.	16	24	
W. O. Bulta. Lees at	7		
1 Chain.		95	
Practing.		15	
3 Pipe Pluge, at Labor \$3.63 mitt, and 40 1 , 25.	1.	633	\$ 10,08
1 0 200		\$ 3,48	
b-ast Drm. 116 lls. st	3 30 -	1.20	-
Dallitt Special, 4 lls at		20	
Steel double frine - 1 lb. 1. D. Bolte - 9 lb. at	10	. 36	
		.09	
1 Cham.		. 08	
Packing. 3 Pipe Pluge, st	5	-15	j .
20hr- \$ 3.96 mett, add 40 \$ +1	25%	6.82	12.26
			,
bout Drom, 136 dla sot	. 3	4.08	
Ballitt, 6lls. at	30	1.80	. /
Steel don't fine . Ill	10	.10	(*)
W. S. Brette - 11 lbs. at	+	.44	
Ilahain.	_	.15	100
Packing.	-	• 10	
3 Pepe Reuge, at	3	- 1%	4
Labor 1412 mett, add 40%	¥ 25%	7.20	14.02

Dunderland Dummary. Structural Work-Houses: Crusher House. Hinders in brusher House. Frestle approach + Extension. Dryer House: 106 Rock Stock Ho. + Furnace Ho. 143 Fine Grinding House. 195 Deren House. 295 Blower Stonge #1. 210 Magnetite Separato Ho. Hematite Blower House #2. ne) boncentrate Stock Ho. book Stock House Stre House. 2730 Tom wested at \$758 \$204,750.00 204,750.00 borngated borning +18+ +22. 51,357.00 Excavation - 20,626 cm. yde, \$ 26th 61 51.80 Dry Stall. 2,800 sungds, at \$ 138 420000

. . 1

Concrete. 3,505 cm. yde, 2 102 1600

Neary Marry 3 5800 m yole at 28 14 500.00 65,752 50

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# to full 97 12340

2 4 0 - 60

(2A)

Mr. Edison:

On this estimate for the Dundwland Plants of home been guided as for as possible by the cost of similar material furnished to attend the things also where possible the actual not of machinel much at attendativelle, adding to save 40 for 25 for as set forth in attail in sheet he with

The Conveyor Rumays have been calculated at 5 cents for found exected, allowing being made for a walkway on one side of conveyor bett only.

Fine Gunding Rolls are figured at cost as built in Laboratory Strant Camber of Rolls Hoppins, ate in Brusher Plant are figured at scente per pound, complete, but not exected.

Structual Hook (Otmuse) is figured at 47522 per ton exceed, and inited houses at temperaturalle taken as a house of calculation - 12 to op being added to same.

The amount added for exection of Machinery in house @ have fut at \$ 97,123 \$2, which is & edit per found.

No allowance has been made for freight, duties lumber in stain 4 flower, R. R. tracks in the Clark perfect, coal handling from R. R. track twee + worter for brilers and engineer.

This estimate is breach on handling 5000 trace of counter one every 20 hourse, I have not in now future extension. We expanded for Magnetite Concentrate, we under the plan it misse with the threather than the Concentrate, we made the plan it misse with the structure of the Blower Hourse on it was to the blower than the Blower Hourse on it was to the struck of the Struck Hourse.

Should say this plant could not be erected for less than \$ 1,400,000 == -

12/31/01-

2430.00

4070.04

1030.00

154.60

3 7 8.65 600.00

900.00

21450

32 16.00

1260.00.

840.00

36.00 37565

680.00 11 105.98

36 3.50 378-65

Briquetting Plant - Mr.

Conveyore:

#1. Car Dump to Stock House:

36 Bet, 600 ft. c. to c., mit fit. 56 ft., 12/5 ft. of 36 Bett, at 122

2480. . . mullen edging at 18 \$.

12+ft, at \$9 50

Onterin having, 176 ft. at 12 to 422.40 2160.00 as ats. 600 ft. at 348 5 Bents, at \$ 12600 600.00 4

1 Frankling Tripper-

(500time per he) - mater - 75 A.P.-

2. Belt under Stock House: 36 Belt, 250 ft. C. tre., level .-

513 tt. of 36 Belt, at \$288

1030 · . mbla edging at 154.

Ared and tail pulling, etc. Outsing framing 250 ft at 122 250ft t 350 Odler + idle lain

- mtn. 204 P.

\$3 Stock House to Dryens

36 Batt, 350 ft. a. to coult lit 15 715 ft. of 36 Bett, at \$200

1430 . rubber edging at 154.

384 ft. at \$ 958 Enterin framing - 15 ft. at \$ 200 died and tail pullup, etc.

Odlere bearings, ste. 380 ft. at \$ 350 7 Bents at \$ 12000

-motor-40H.P.

(300 this)

3063.15

```
Buquetting Plant - Mr.
                      Brought forward
                                                       21544.25
2 Deraper bonneyor - Duger to Mixer:
  Head and tail faully
                                              466.43
  Onterior framing, 110 ft. et 3 90
                                              418.00
   110 ft. Conseyor, at #9.58.
                                            1053.80
                                                          1938.23
  - motor. 20 H.P.-
5 Petun Belt to Bin at Dryen:
  24' Balt, 115 ft. c. trc., vest. lt. 12 ft.
   245 ft. of 24 Belt, at 1 125
                                              30625
  490. Ineller adging, ± 154.
Head + tail fulling to.
Ontain faming, 118ft. ± 1 24
                                               73.50
                                              349.94
                                               £3 0.00
   Odler + iller berings, 115 ft at $ 390
                                               345.00
                                                           1804.69
- Mita. 20x4. P.-
16 Mines to Caroles:
   24 Balt, 165 ft. a.t. a., 25 ft. wet. ht.
   347 ft. of 24 Balt, at 1 12
                                              431.26
   690 I suffer edging at 15 $ Alead + tail pulling, etc.
                                               10 3.50 .
                                               3 49.94
   Rummy let blogs - toft, at $8.50
                                               5 60.00
   Ontrid framing , 98 ft at 2.40.
Odlar + idle bornige - 165 ft at 13
                                               2 2 6.00
                        - 165 ft. at $ 380.
                                               495.00
    1 Bent.
                                                120.00
                                                           2287.69
  - moter - 20 N.P.
 #7 Corler to Brickers
    24" Belt, 40 ft. c. to c. vert. lx. 8 ft.
    95 to of 24 Belt, at $ 125
                                                111.75
    190. miller adging, at 16 p
                                                 21.40
    95 . . interior from
                                               228.00
   Alexand tail fully lets. - Collect + idle themps, 40 ft., at 1022 - Motor - 10 H. P.
                                               349.94
                                                             845 19
                                               120.00
                                                       17920.05
                       Comied forward-
```

Briquetting Plant - Mr. 12/01.1901. Bonneyon. "I ban Dump to Strek House ... 36 Bett, 600 ft. e. to c. vertical height soft 1218 ft. of 36 But nt \$2.00 2430 · - miles selection . . 2 83 with Head and tail pulling ste . 37 8.65 por rummeny latinary buildings: 424 ft. at \$ 9.60 4070.40 Onterior framing 176 ft. at \$ 2.20 Odlar idla berings te, 600 ft. at \$ 288 2 8 60.00 5 Bents nt \$ 120 00 1 Travelling Triffen. -Moto. 754.0. (500 tome for he) 2. Belt whole Strok Am 20 Bell . 200 ft a to a, levels 515 ft. of 24" Butt at \$ 122 64 275 1030 ft. of rullon edging at 15 cant 349.94 Onterin frame, 250 ft . 2 1200 100 # at 100 - Motor . 20 H.C. +3. Stock House to Dryen. 24 Bet, 350 ft. a. to a met height cafe: 715 ft. of 20 Out, at \$ 128 19275 1430 th of rubben adquiry at 18 -214.90 335 ft. at \$ 888 2 68 0.00 Enterior framing, 13ft. at \$ 200 Asad and tail familey, etc. 349.94 Odler idea bearing 1050.00 7 Best at \$ 1200 840.00 Motor 30 N.P.

#### Brignetting Plant - Mo. Brought forward-19662.33 4 Deraper Conseyor. Dryer to miner. Head and Jail Pulley, etc. 466.43 Onterior framing, 110 ft. at 1382 418.00 110 ft. Consuga, x \$ 9 50 1 0.5 3,80 938.23 - Motor - 20 H. O. 60 tone. \*5 Return Belt to Bin at Dryen: 24 Belt, 115 ft. a. t. c., vert leight 12 ft .: 245ft of 24 Belt at \$123 30 625 490 ft of rubber edging at 15 cts. Head not tail pulled to. Onterin having 113 ft, at \$200 Odlers to 115 ft, It \$300 73.50 349.94 230.00 34 3.00 - motor - 20 A. C. \_ 160 tone .-\*6 Mixu to booler: 24 Belt, 165 ft. c. to wet lt. 25 ft. 345 ft of 24 But at 122 690 . . nubben edging at 15 tts. Head and tail pulleys, etc. 103.50 349.94 Rumay lot, blogs, 70 ft at \$822 Onteins framing, 95 ft, at \$222 Odlere 4 idles beauty, 163 ft at \$322 560.00 190.00 495.00 Bent. 120.00 - motor. 20 H.P. 125 trus \*7 Coroler to Brishus . 24 Belt, 40 ft. c. tre vent height & the 95 ft of 24 belt, at \$ 12 1 1 8-75 195 th of rubber edging at 18 cents. 28.50 40 ft. interior haming lat \$ 2 12 \$0.00 Head and tail faulleys, etc. 349.94 Odler viden beninge, 40 ft at \$350 120.00 697.19

25,752.19

#### Briquetting Plant .. Mo. Brought forward-25 752.18 #8 Scraper Conveyor over Brickers: 2-each 300 ft. 9. to 9. 2 Stead and tail pulleys, etc. 932.86 Onterior Francis 600 ft at \$300 600 ft. Conveyor, at \$938 2280.00 \$748.00 8960.86 --- 2 Motore. 30 H. P. each - 60 H. P. \*9 Return Belt under Brichers: 24 Belt, 400 ft. c. to c., west. lt. 13-ft. 815 thol 24 Belt, at \$122 1018.75 1630 tt. Subber edging, at 15 cts. 244.50 Atrad and tail bulleys, etc. 34 9.94 Rummy between bldge , 80 ft st \$ 8.50. 640.00 5- 3- C C. CO & Bent and Trangler Tower. **64 %.** 00 Interior framing 320 ft - at \$ 222 640.00 - Motor. 15 A.C. "10 Return to Lerapers above Brichers: 24 Belt, sooft. e. to c. vest. ht. 13 ft.: 215 ft. of 24" But, at 122 268.75 430 1 . hubber edging, at 13 aut. 64.50 Stead and tail fulleys, etc .-349.94 Runway between bldgs., 80 ft. at \$ 800 640.00 Onter framing, 20 ft. at \$200 Odler idler bearing, 100 ft. at \$300 40.00 300.00 1 Bent .-20.00 1783.19

- moter-13 A.J.-

arried forward. \_\_\_\_ 41234.37

# Briquetting Plant - Mr.

Furnace Drive (Buckets in Oven)	50 A.C.
8 Myers. 20 N.P. each.	160
Screw Conveyore at Mixere.	25
72 Brickelle.	40 " "
Exhausters for 36 Furnaces: 5 H. P. each	180 " "
Furnace Blower.	60 4 1
6-xhauster top of Dryen. Tou Stouse	10
Jac Stouse- 1	20 11
Dell feeders. Biles House.	15
Foundry.	10
machine Sh. L.	75
Smith Shop.	
Belt & Se uper Conseyors.	284
Bucket Conseyor back of Jun	25
· · · to Bin House.	30 4 4
over Oima.	40
	1035 🚜 🕫 -

1035 H.P. Motore, at \$1822 per H.P.

1035 A.C. Generative . Promo. 1 + 1600

Otining and electric appliances -

1000.00

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Briquetting Plant: Mr.
       Summary:
 Structural (Stones):
  mixen House.
  muck
 Druger
              " (15,000 tone eagle)
  Boller
 Foundry + Forge.
Brisker V Ovel House.
 916 Tone, at $7500 per ton erected - $ 68,700.00
Congated Drong-Kindowi . Doors.
                                    29.437.00 89137.00
 Excavating, 8677 en yde., at 23 etc.
Dry Stall, 767 "
                                       1135.50
                                       6510.00
Machine Shop, Office and Store, Oil House . - Wood, count
                                                  16:000.00
 with corrugated iron .-
 Oil Store.
                                                     600.00
 1035 H. P. Motors, at $ 1882
                                                  18630.00
 1135 H.O. Generators, at $ 1600
                                                  18160,00
 Mining + Electric appliances.
                                                   7000.00
Oiling Suptem.
Heating
                                                  4000.00
              (1B) Carried forward.
                                               P164, 341.75
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Originating Plant - Mo.

Summary: Brought forward-F164,341.75 Scraper + Belt Conveyors. 41,234.37 3 Bucket bonneyne. Concentrate Durf under Care. 12677.54 1040,00 72 Brickers, at \$ 10002 each-72000.00 36 Ovene, including furnaces, 48892.68 Steam Plant, 1200 N.P. 42000.00 8 Mixers, Complete. Kettler. 30240.00 1500.00 36 Exhausters with drive and 6600.00 1 Large Blower 300.00 1 Dryen, with Exhauster, etc., complete. 4860.00 Equipment for machine Shop, & Foundry. 150 00.00 Exection. 2265339

. 70		
7 Legs	38 555	
2. 9 Eis _	5 9 25	
C Dirders-	47575	
Balts for the above	625 <b>0</b> 870	97820
4 Pollow Blocks	46156	,
4 Buskings	4092	
THE ON PIECE	6.308	
4 Grease Cup Covers	456	
4 " Sadles-	160	
Batbett for Bushings	1600	
4 Greax Cyo Covero 4 Sathert for Bushings Botts for Bulling & Gu	dos 660	59432
2 Mandrell without So		
Plates for 2 Rolls	24290	
Photes for 2 Rolls Both for Plates	1374	849.04
2 Pullup_	11550	
2 Fridtions Complete	4250	
2 Frictions Complete Battitt for Pulleys	200	16000
2. Shafts.	16690	*
4 Bolts.	5986	
6 Muts for same.	1939	
8 Washurs-	1.68	24783
2 Thrust Bearing,	1062	
A Dusid Oil Casine	, 605	
2 for Pully ends.	220	
Babbill for Ihrus)	140 240	2269
		~~~7
Stul Hoppoer	24350	
2 Stul Chick Plate	9737	34487
	2 at at	309243

502 304293 Toller Feed. 3 Sections; 2 Just 2 Bearings -8400 1 Worm Casting 790 4 Pertho Brackets and Bages 270 I Hom I hul and Home Pair of Miter Seals 4 Bus 395 Mark 3 755 4 Buch 110 2 3th Interes Blocks 360 2 276 Batte Bolto 1 Feed Roll Shaft Worm shaft. 1310 2 8410 I arek Shaft. 15 Plate 110 Both 2 Ruch 2 Frie Stell Brams ove Rolls. 40794 362793 bounds. Ba Total Wight, 2 Jah 130 # Ru 91 Wa Gillow Blocks. 59432 mand rella. P4904 Jully. 2 Flow That's Ballo-Strust Bearing -16000 3 for 24783 2267 117386 130 - S Q.

503 Castings for Dian 1 Rolls Sinon My. Foundation Constings. 4 Ligo Fel Nos 1- 1558 9400# 1555. 38200# Stacking Work on Sann 820.20 110.00 1 6 2010 Sie Holk Did. Par "1552 - 2/10 South South Red Pide 1348 23600 2- Dirde - 2ice Tron Bills of Casting Son a Sent 1471.00 300,00 40 Foundation Slate John 1567 4208 2 Check's Cox 1249 9737 422,55 Steel Hopper. Part. 2854 1 2855 " 2852 -230 " 2853 7600 ×1280,55 4 Pillow Block 1014 46156 2 Filler Blok 1520 4092 6308 A Brease Bup Sadles 1015. 1018 160 1017 456 Machine Work 2 Houst Bearing 978 # Gil Basing - for Puly 114 600 220 Machine Work

Sile.

163g

2- Sully. 11550
2 Specier for Friction 1994 2000 55.00
4 Friction Ciny 1298 1860 65.10
11. Idler Gully 48 29. 778 5190
2 Friction Bando Complete.

2- Mandred. 59240 13.03 28
32 Regular Plate 2728 857.08
4 Olinger " 2728 857.08

Mach Work on Mandrell 4498 24

1888. Both for Regular Plate 216.00

18 Might of Right 1288. 2505

304 Works for Porth

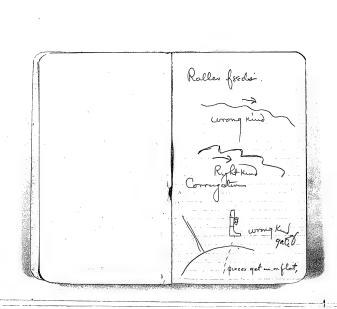
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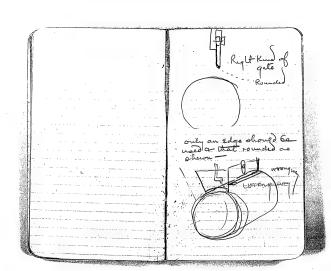
Mal floor Beauti ove, Will. (4) Carnegie Stel Co. 40794 2 angle Bracket Tolder feel over Tolk 8700 mense 2 Bearing " 1654 790 2 Before Machine Work Dearing -1 Horn Costing # 2521 270 2 Caps\_ 32 70 124 .12.40 7.44 1 Worm Whul 610 Horm\_ 95,00 145. 1 Pair & Miter Lears\_ 4 Splot Collars\_ 110-25 00 9 10 Machin work. 1- 18" Hill Frietin Clutch -30,00 1 20 " Pully 2- 35 " Pillow Blocks\_ 1200 15.10 Composition Washers-10 00 512 1.25

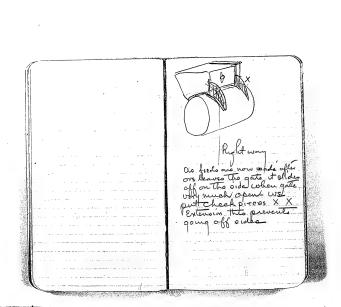
## Edison Ore Milling Syndicate, Ltd., and Related Companies Standard Construction Corporation, Ltd. Pocket Notebook (1902-1904)

This pocket notebook was used mainly by Edison, probably during the period 1902-1904. Included are notes and drawings pertaining to the design and construction of the iron concentration plant at Dunderland, Norway, and to operations at Edison's cement works in Stewartsville, New Jersey. Many of the pages contain references to Edison's correspondence with William Simpkin, chile ragineer of the Standard Construction Corp., Ltd. The flyger is inscribed "Sketch & rough notes for Simpkins." The cover is marked "Simpkins." The pages are unnumbered. Approximately 50 pages have been used.

STATIONERS, SO MAIDSH LAN NEW YORK. No. 11 Okelcharon







X 10 50 narrow it Chokes XX No.

the Gelf Grugue Treturno from Dryler Crusher ollowed have only another speed as well goe no more than 1 or 11 - make of ret A reduce the speed to do this so a man can be statumed at Gelt to act as a picker for Gatto spikes sould be ado Etc albamas a link or pun well Continue going to rounds till will be greater in the soft mud making ocleaning

The position was and whole arminformed of the fundament of the food Court for many of the world kind of Regular push buttons or a films in mill from dust sto we have well in dust- you can order a sample any time The pyromiter chared be pended in the 60x of the hyperst retake at one control of one interest from interest and read food when ove to passing.

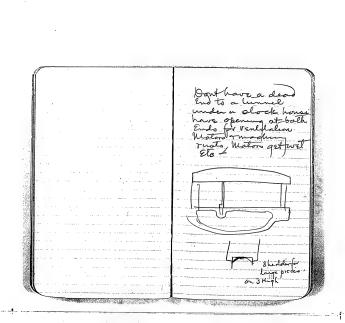
on the opposite side a Each whale Gox at Dryen the door show have a hole cut in with a slide on outside where a strip of mica Combe alid In of Enough withthown to clean-The flame can be soon t in Case of a block it can at once of scan between what seeking

Wood must not come within 3 ft of Dryer of floored - No wood chall be used on floor ( where fow is, our challed Motor driving conveyor from Crushing property changes our into get outside our into get outside our into delta Exhauster for theless when we start up 401

Ted to 3/4 slate in

one with occasion don't use any trucker sheet than 116 Thick of chiefe to made its copality goes ground to the same radius as the Commutator attornes sparking of water brush to not a front Ouccess without they are Eased up withe joints the Could grow to the

+ are no good where they rece attention whatever The Searning we put our most the with the war change are all right with work a result with work a water water a water work as a water wate that is ourlable for well do ours with present Reserver temps =



all betts have Rubber

Water Cooled bearings -Raller feeds in Dunderlas Work houses not nece use chutes & Control speed of belt by

DragnTreth of plate of S sends sketch 2 top floor of Dryen Showed be all windows Other floor more Windows

Rock Slock -

7.28

Must have return 6elt from Dryer trugger apollo back go slow

Blower mater on furnoce Rockstock Only Chuter under Start belt, Bell to rung more orless we tat

36" Roll or withen 4 for rall Hayers 30 gold Clean out ore when I stalled Blowers, Wount. Suffle Hate an a Depende fixture of Slike in side slo

all rolls fred driven from from 6 ferms on one mater light chance to change grain also on end of the feng from buff drive rafted fred

The arms that
Extend out the will
Winst be ofunt down
of any particular
Greush under the arm hast be fired. This is Hell-

Raller feed 6t 36 all appropria no worms open of all gens of

Mulliplied pollens

Why property sent sur
property than Mayalso Letter 5 about Control of the Contro

Swallow Compressor - gear water druiss -Had to plane out both order hirdele roll 3 H Letter NO Explanation of a branches

Things the driven Boll, Could have a close grown Cost watered chilly had broken their chilled rolls were danger of flat spot, Jolf spot devilo

S delorm at Blower ticraus homology to come to complete the transcript the complete the transcript to come glant the transcript the complete the transcript the complete the transcript th

blog not brand to Stone Walking but Rolls Canons
planed but top ways The

ongun-our ray beaung head with and sket left off or queen cap put on - pu holes in see time to oit -Suggest of por Happer + roll now our Dent narrow sports Parties and the second second

Last 36 Rolla corrugtus not so lunge + Costor ground flat-Post him about Coulors scool Chute 4 Stroke plate 4 How we force Chute amber Chalk 3 High, fixed 6 the Hanter grant that youth Say that we did what he stated in his letter of topf 7. Required of probability with one Reg Bole De grante run Tell him wanter ( SAN TO SERVICE STREET

Tellhum et open chate See letter Sort 1 Gut for one of the bearings to marke Horagus many times of they think I think think. Heavy Mater shafts Ohen on 6 olf gears Long bearing 5 ft rolls

How about ordhung primo and Westers, chatter syrked sprik we agrissed seperate primos perimo accompled winto in - Try with see an oil film on shoft , Doubt five get 60 / effreng . 3 H Roth within making a fat of fine Think we shed yo above 40 percent. hence the return well be very himmy The course is a fact of the work of the course of Course we appeared that the course of Course we appeared to the course of Course we appeared to the course of Course we appeared to the time of the course of the

Wany between the id oh on a 24 bect of el Gelt, 8 ply Its the length of the change - weight that County tother the depth of trouble is film fof gil in shaft weight not small to cut this it found show at the Edges than it can throught of the work but of surface the graft there is film on thick oil + cham stand still 

Of course it good what's have great other Capocity on CP but the is Hour by wort do, so we chould have to wike mine on Coer stronger ou may

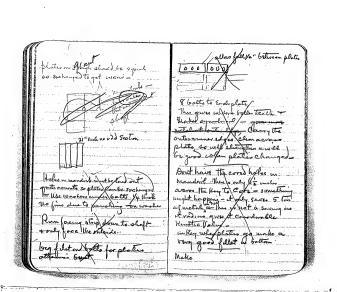
quest set bottom to bottom it better it set of whether it set of which it is a first of the whole it is a close as you can get of how he whoul plates allowing whether 10 The stuff is fine Recak about Rulker fred wrigh out the purion the syft rolls'hasto will

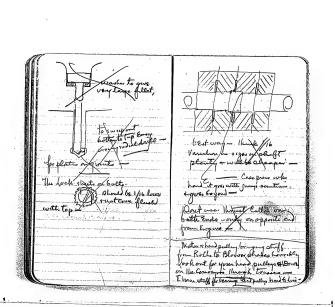
Lette 10 lung spouls Say that I am in doubt be dry althou was Coldate horses might answer ou will am hugheffreness in 3 thigh it to blookly for how been auctiving Chaol over Sparts deliverent to rether found over Sparts deliverent to rether found at Chick blower we have been delike blower we have been in the rock yet proper present times we thereoff the proper present to the rock to the rock to proper for each to the proper for each to the proper for each to proper the proper for each to be proper for each to be proper for the proper fo

Say that 24 return 65lf but distribute it Souther Wh destrobuter top of the or own Gisnot-Rate plates chilled

Swant data asto power and call fruits convigor higher Contral - Harty What about that on ville nedesign branes also wider bose - also arm sp all bon

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# EDISON PHONOGRAPH WORKS RECORDS

The Edison Phonograph Works was incorporated on May 3, 1888, and held the manufacturing rights to Edison's phonograph. Edison was the founding president and majority stockholder. The company operated a factory in West Orange for the manufacture of phonographs and phonograph records, as well as Bates numbering machines and other Edison products. Its products were distributed through sales companies, including the North American Phonograph Co. during the 1890s, the National Phonograph Co. during the 1890s, and Thomas A. Edison, Inc., after 1910. Its factory was destroyed by fire in December 1914 and subsequently rebuilt. In 1924 the company became part of Thomas A. Edison, Inc. The records cover the years 1888-1916. Related material can be found in the Document File Series. The minute book, along with financial documents and other items for the period 1888-1898, can be found in Thomas A. Edison Papers: A Selective Microfilm Edition, Part III. A finding aid for the archival record group is available at the Edison National Historic Site.

The selected records are arranged in the following order: (1) Ledger (1907-1916); Journals (1901-1917); and (3) Profit and Loss Statements (1899-1911). Among the records not selected is a binder of shop notices indicating changes in part numbers for phonographs, motion picture apparatus, Bates numbering machines, and other products manufactured at the Works. Also not selected are two investment ledgers listing real estate and machinery accounts (1894-1913); five cash books (1898-1911); and a small folder of stock transfer receipts and routine memoranda.

#### General Ledger #4 (1907-1916)

This ledger covers the period March 1907-March 1916. As the account book of final entry, it summarizes transactions relating to the manufacture of phonographs and Bates machines. Included are capital, sales, insurance, and reserve accounts, as well as accounts in the name of other Edison companies.

## Journal #4 (1901-1908)

This journal covers the period February 1901-February 1908. Chronological entries provide information about transactions posted to various accounts and recorded in the general ledgers.

### Journal #5 (1908-1917)

This journal covers the period March 1908-February 1917. Chronological entries provide information about transactions posted to various accounts and recorded in the general ledgers.

## Profit and Loss Statements (1899-1911)

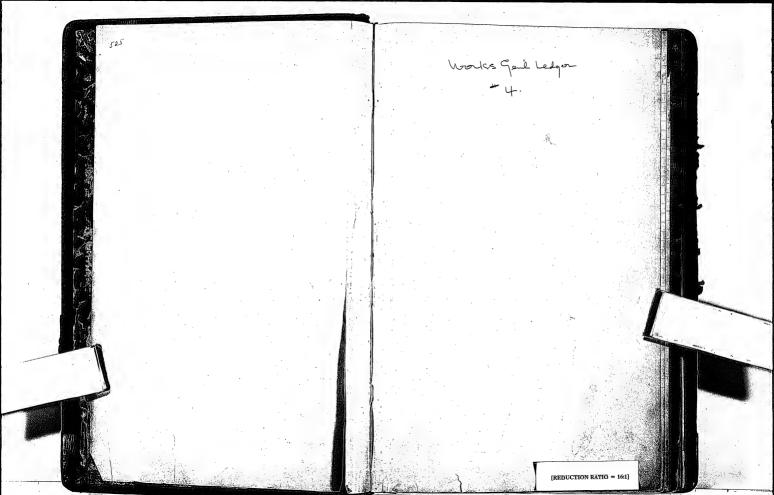
These unbound statements consist of annual profit and loss reports that cover the period March 1899-February 1911. Each statement provides summaries of costs, sales revenues, and inventories at the end of accounting periods. The products covered include phonographs, projecting kinetoscopes, numbering machines, wax, and motors.

#### Binder of Part Number Changes (1909-1910) [not selected]

This binder covers the period April 1909-June 1910 and consists of shop notices by H. Thomas Oliver, George B. Reideran, and other employees of the Edison Phonograph Works. Each notice indicates a new number or numbers for components being manufactured by the Works. The components are named as well as numbered, and the models and products for which they were intended are also specified. The products include musical and business phonographs, shaving machines, Bates numbering machines, and projecting kinetioscopes.

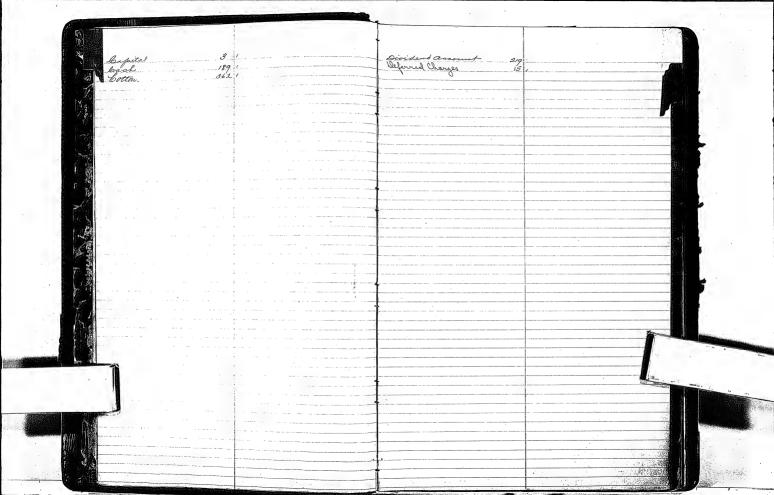
# Edison Phonograph Works Records General Ledger #4 (1907-1916)

This ledger covers the period March 1907-March 1916. As the account book of final entry, it summarizes transactions relating to the manufacture of phonographs and Bates machines. Included are capital, sales, insurance, and reserve accounts, as well as accounts in the name of other Edison companies. The flyleaf is inscribed "Works Gen'l Ledger #4." The book contains 473 numbered pages and an index; many pages are blank.

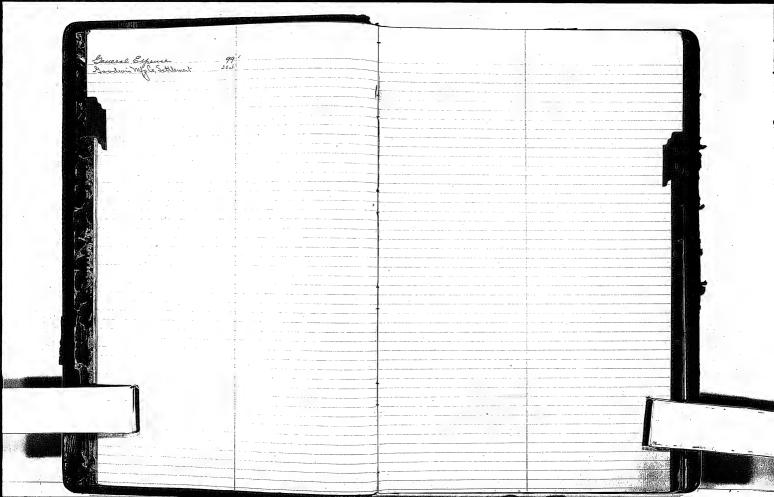


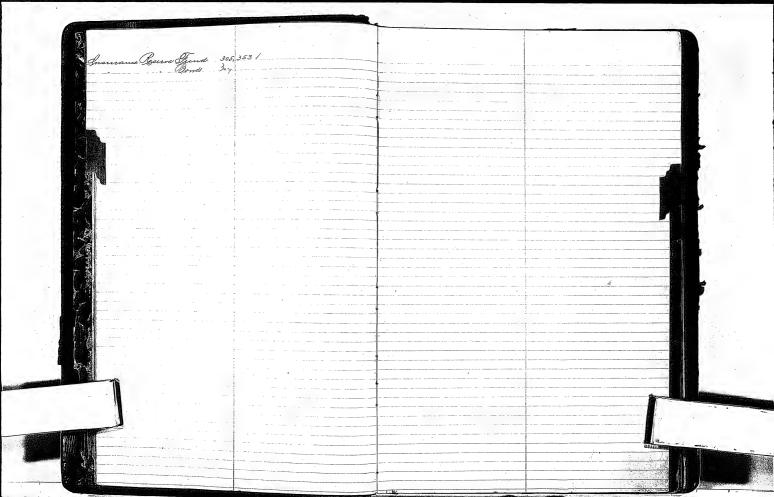
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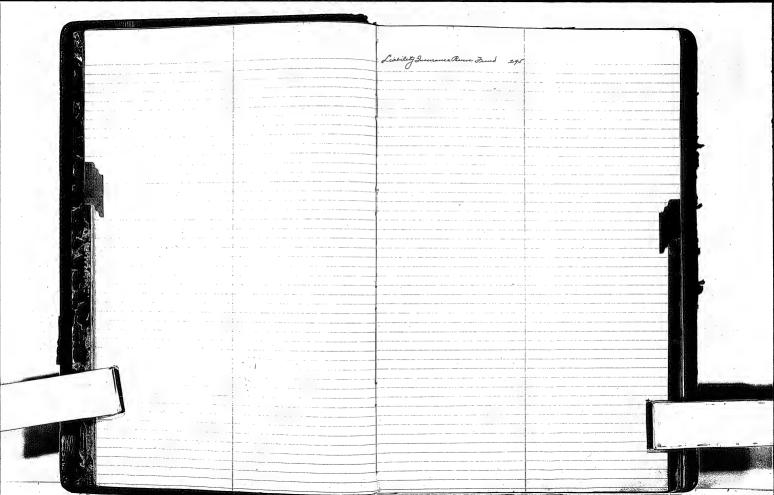
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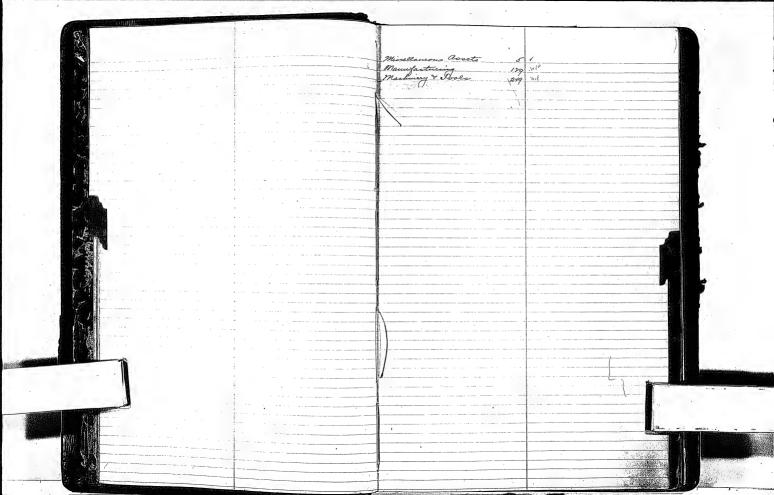


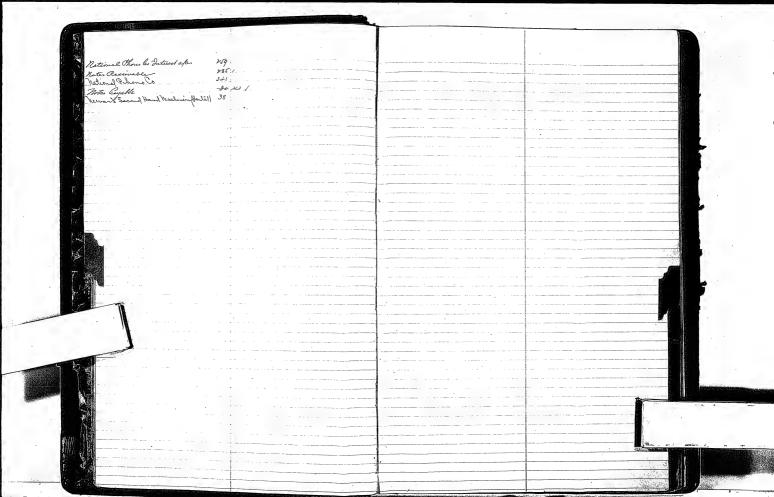
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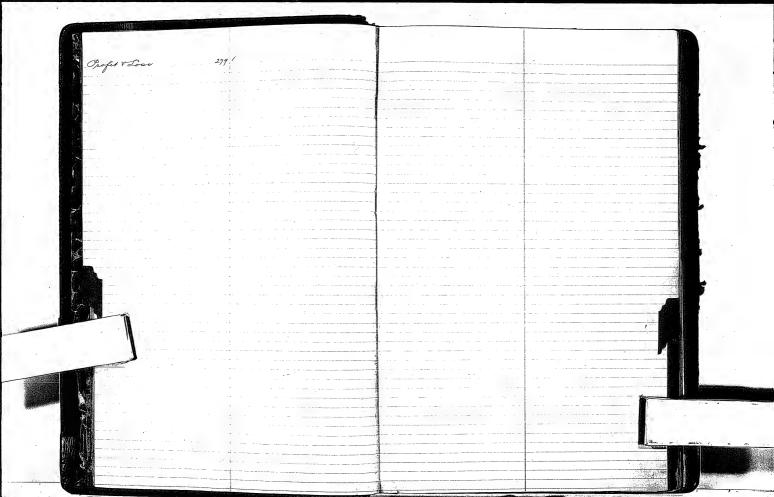


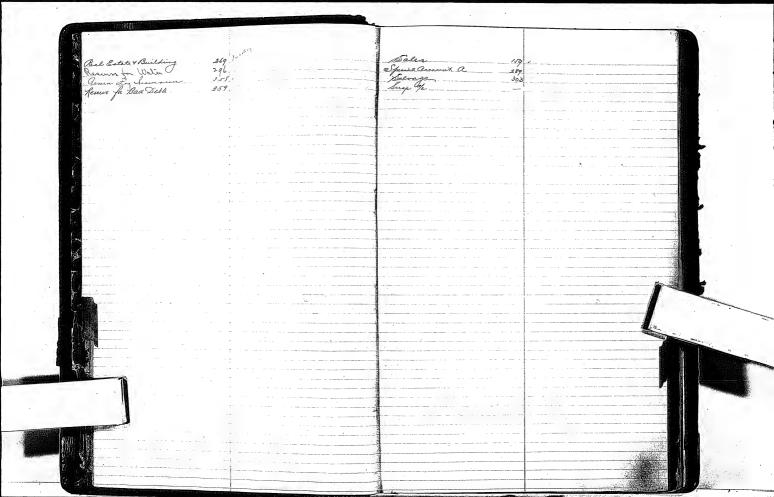


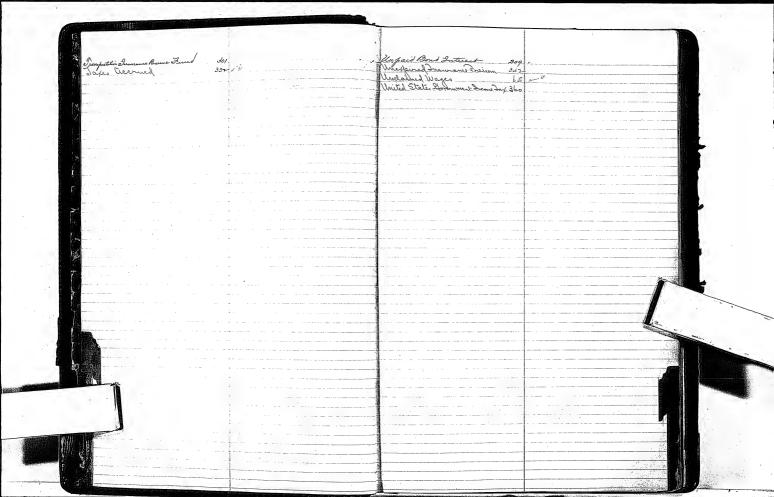


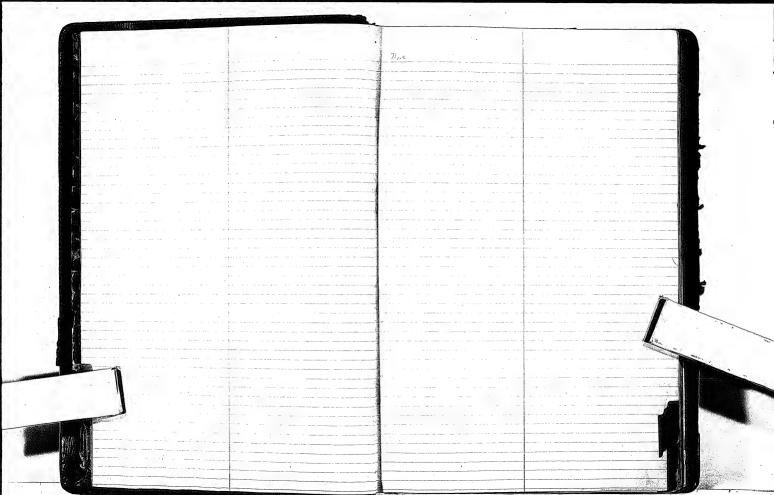


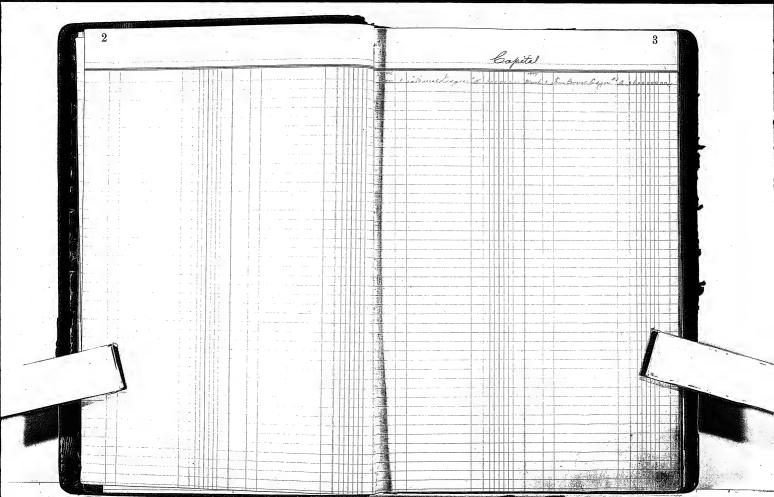


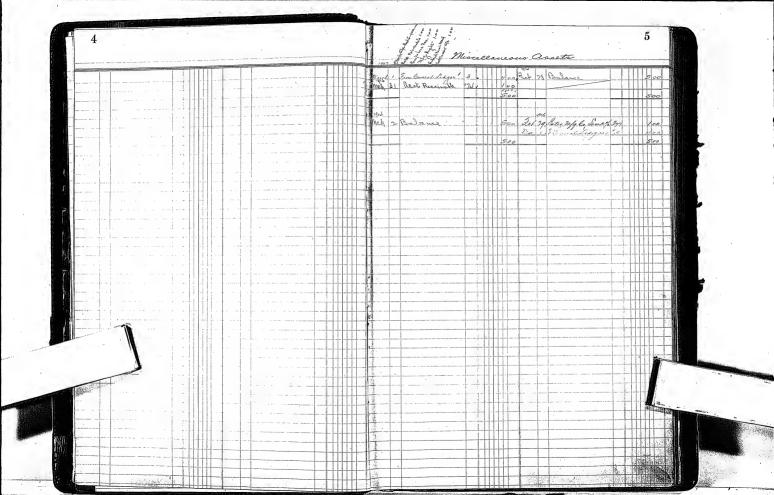


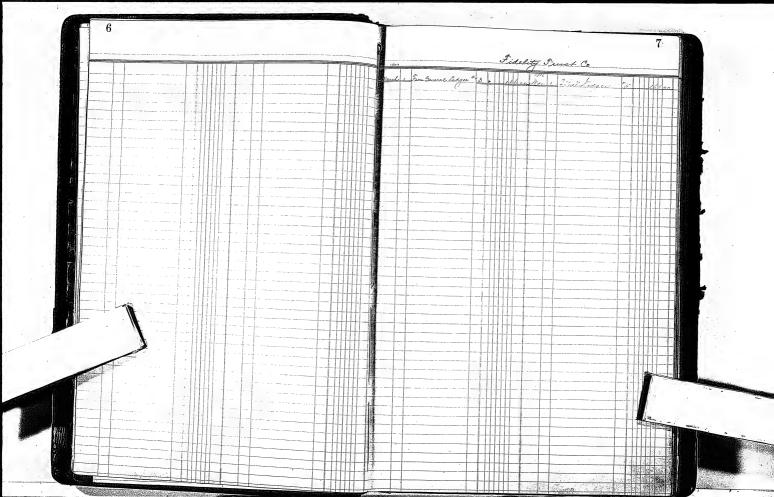




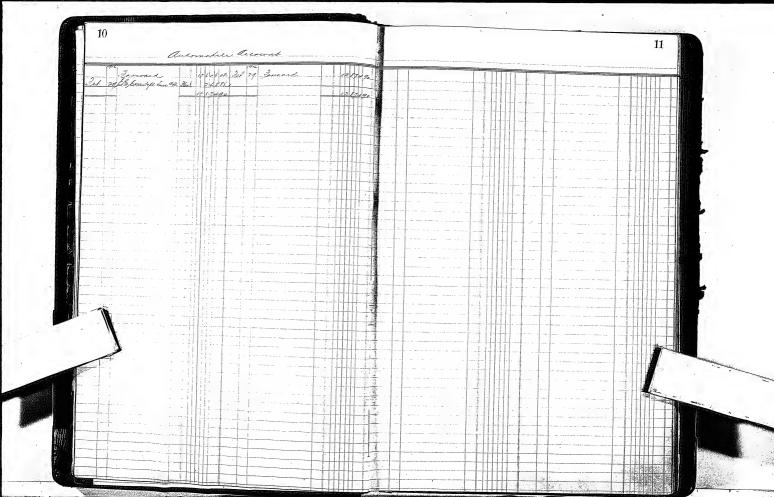




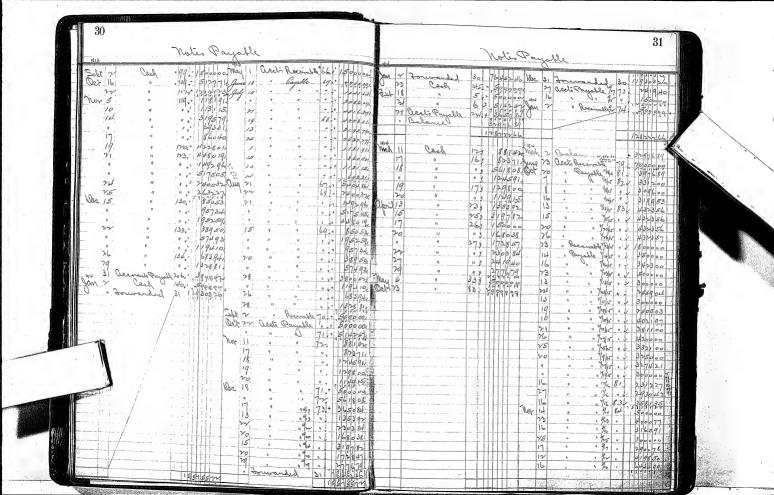




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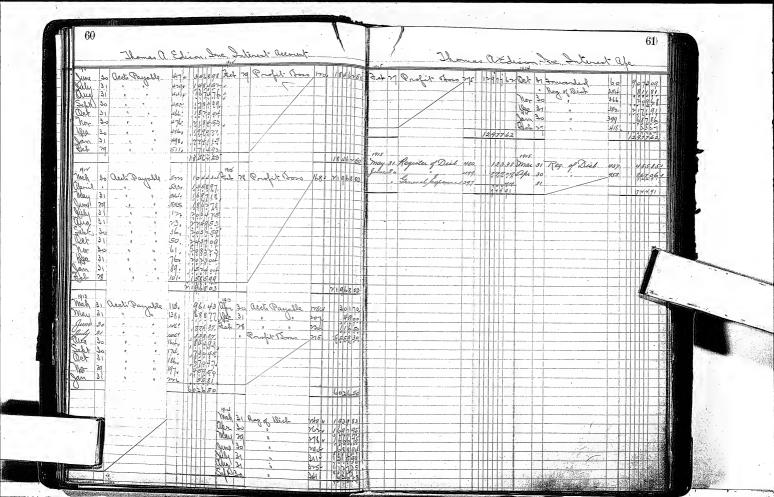
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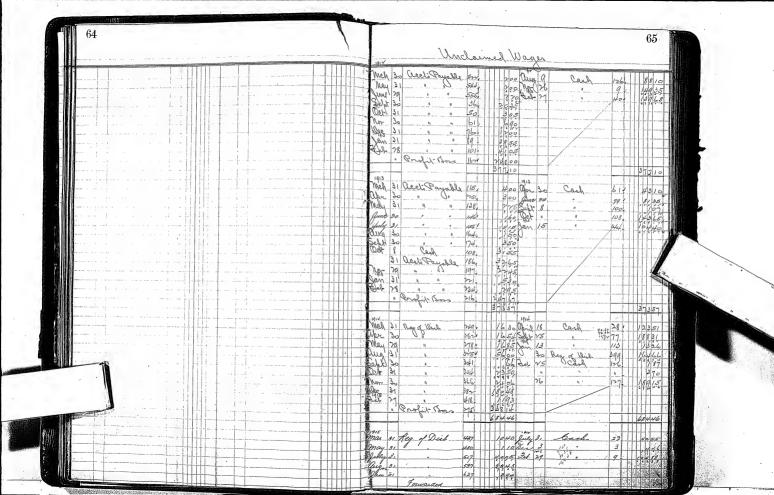
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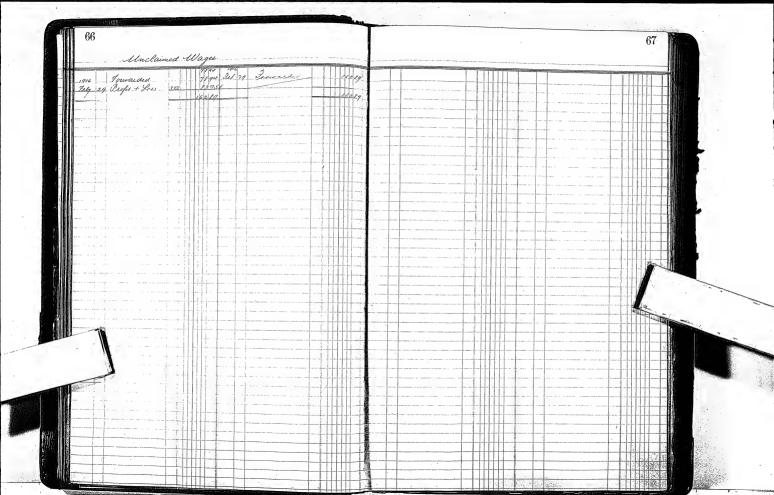
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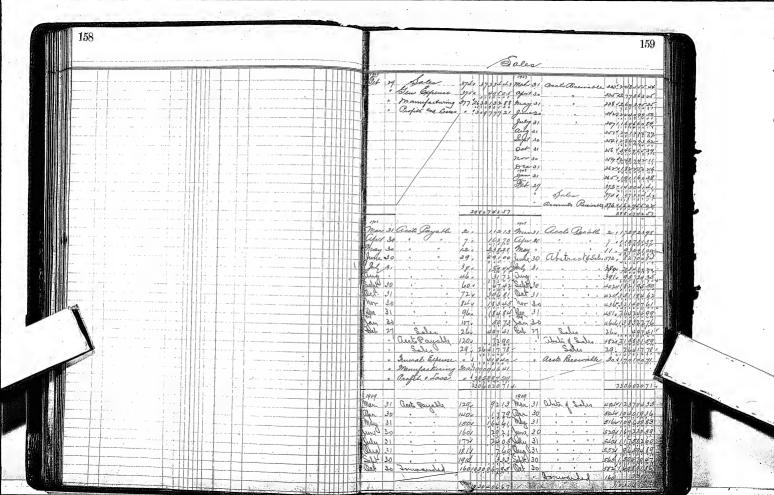
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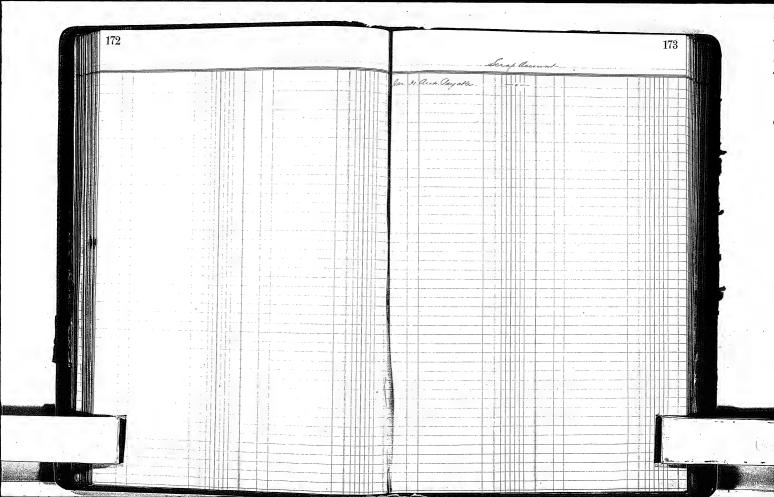
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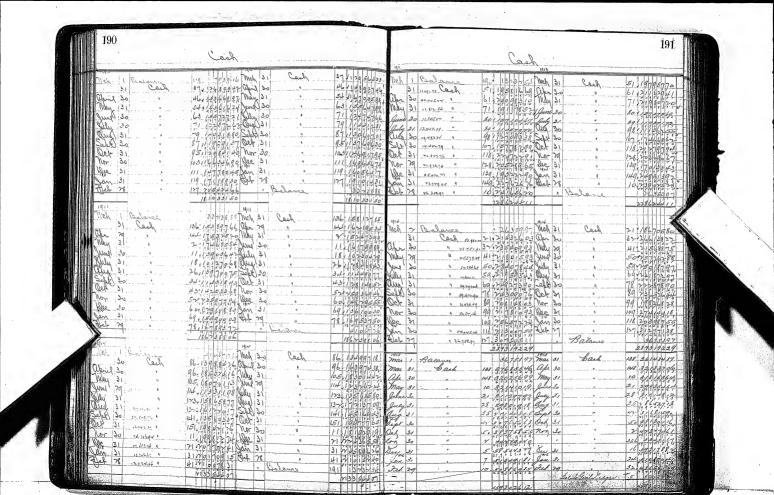


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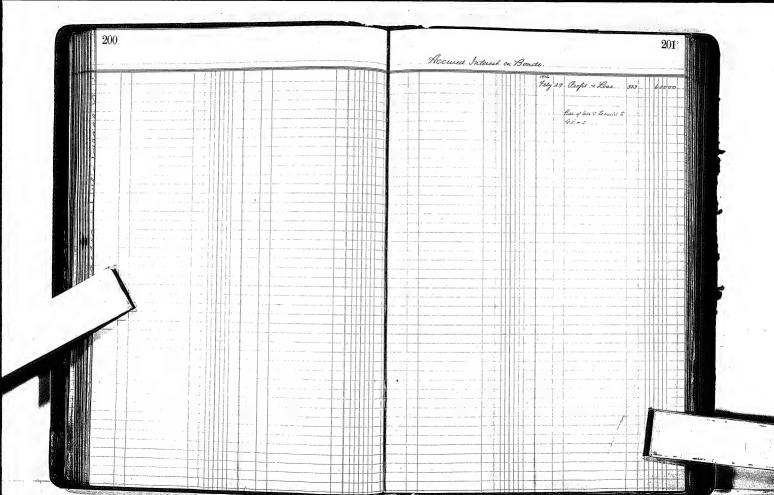
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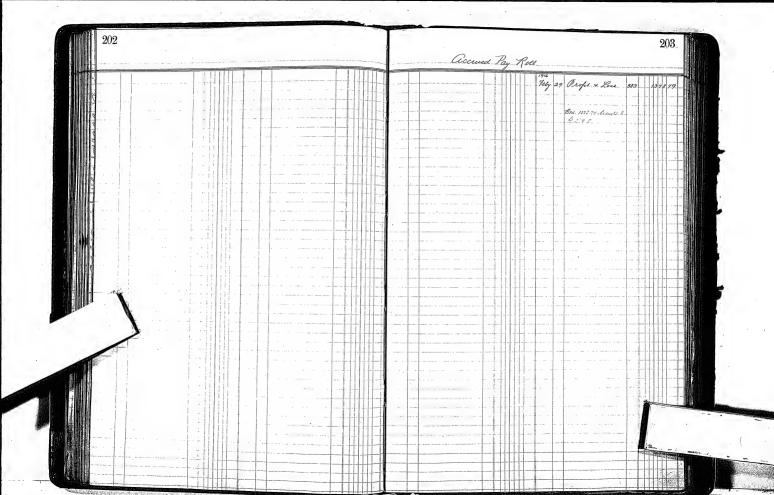


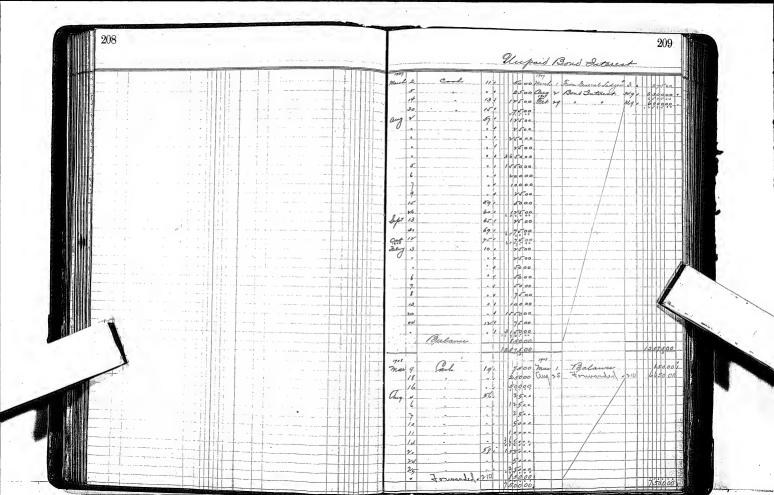
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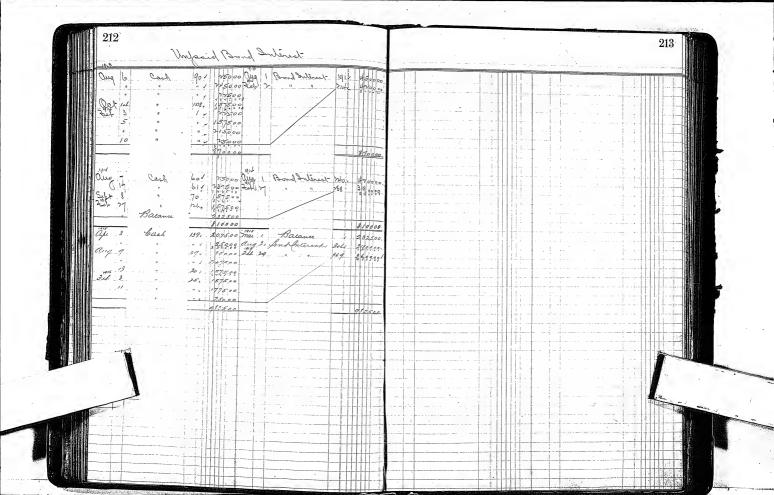
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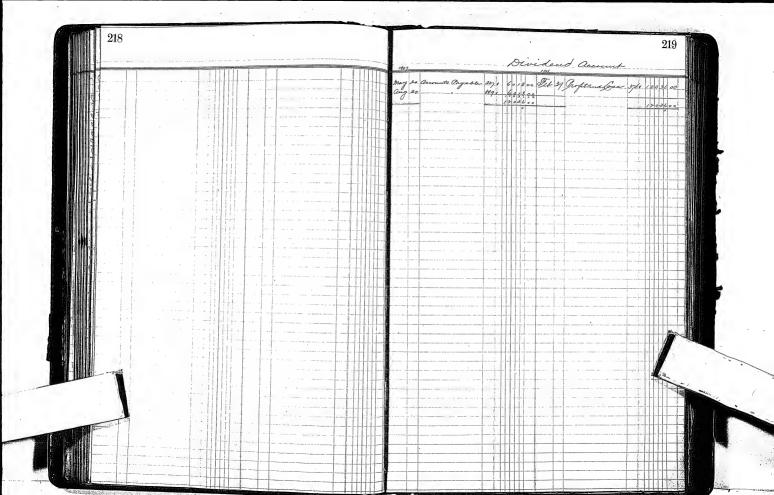


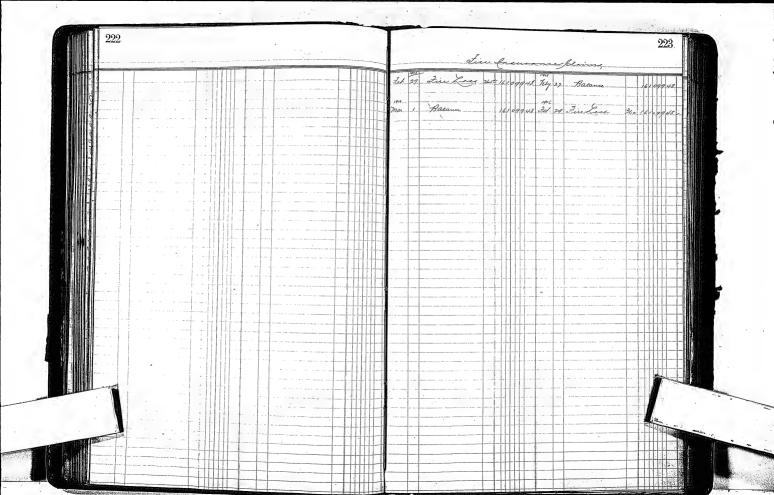




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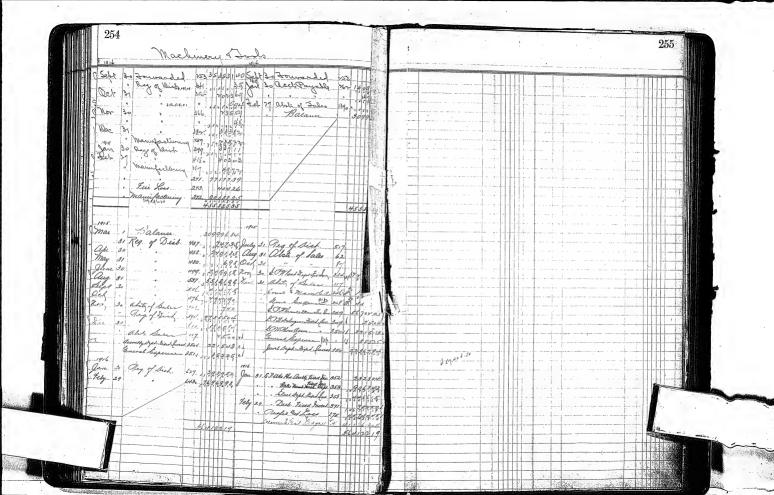


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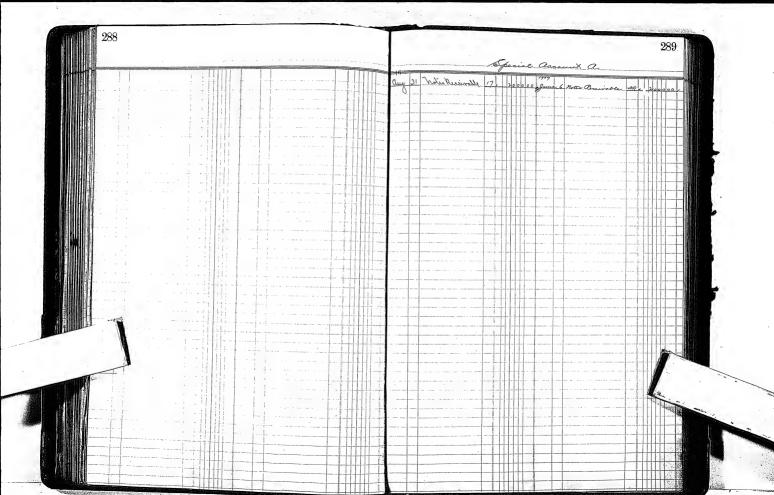
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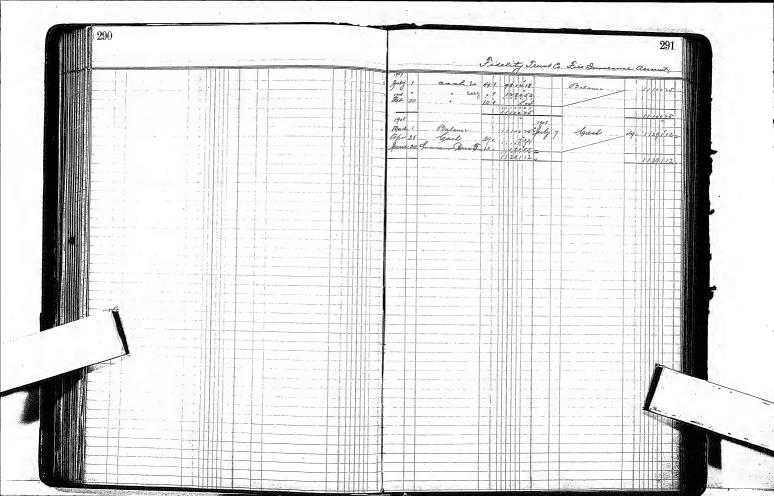
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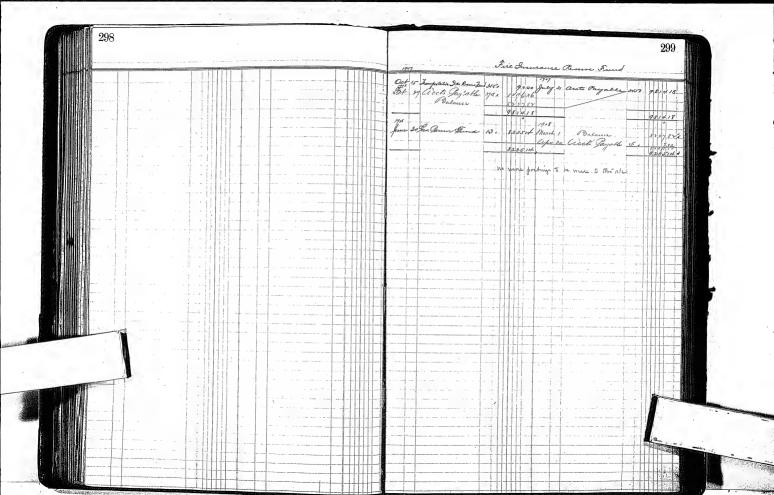
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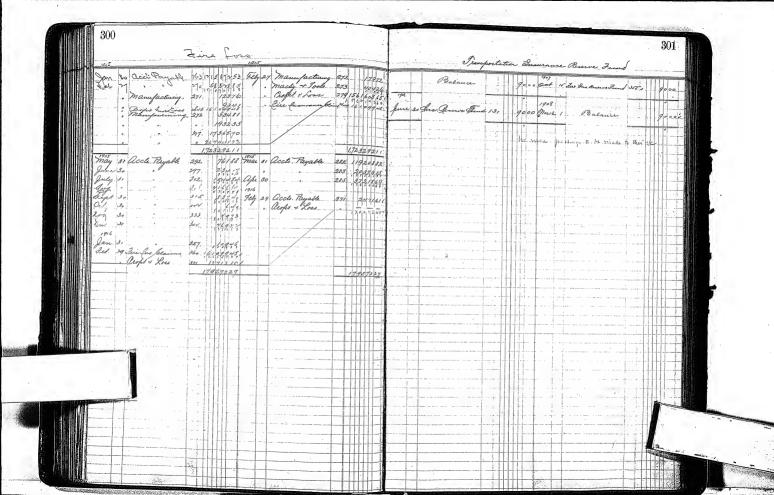
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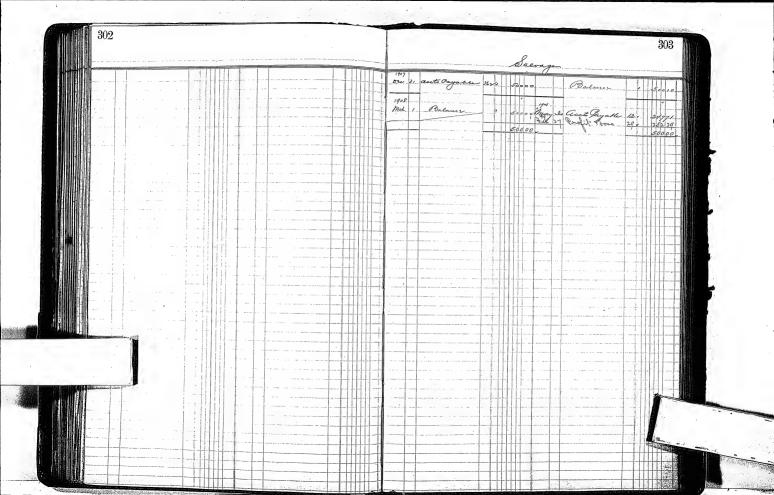




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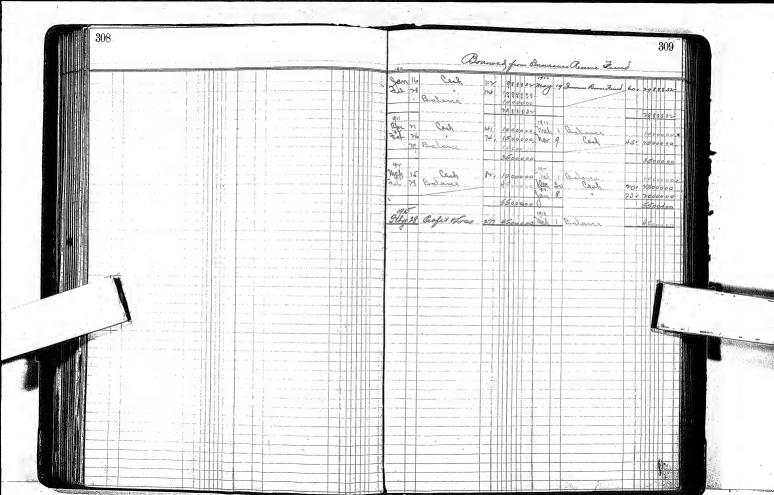


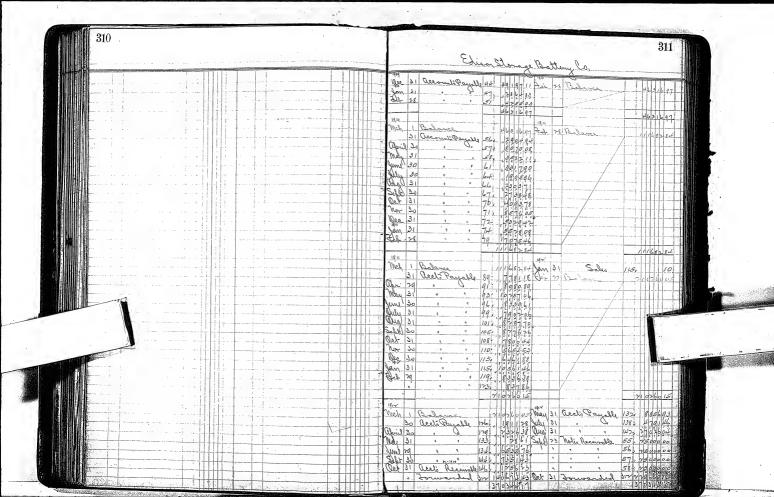




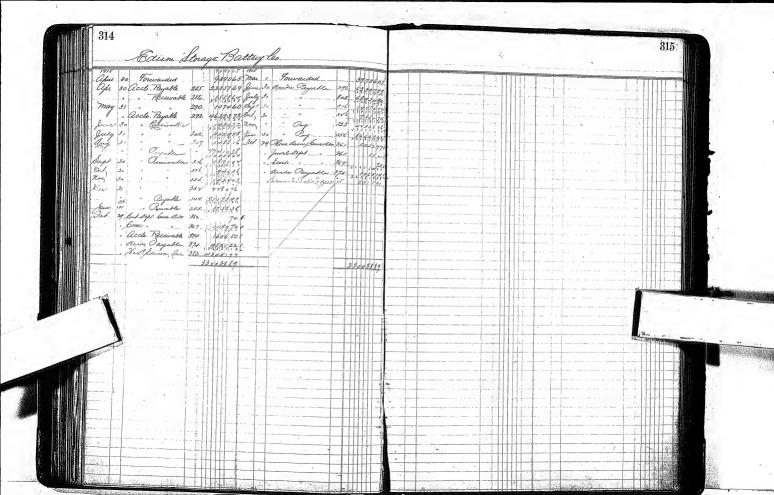
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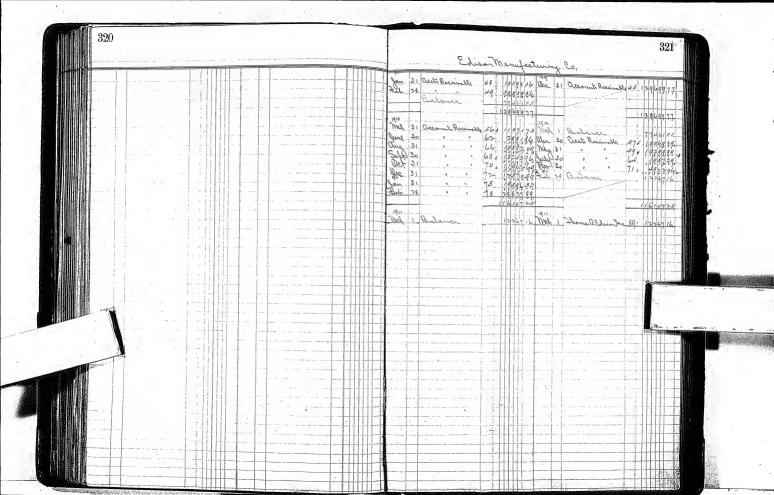
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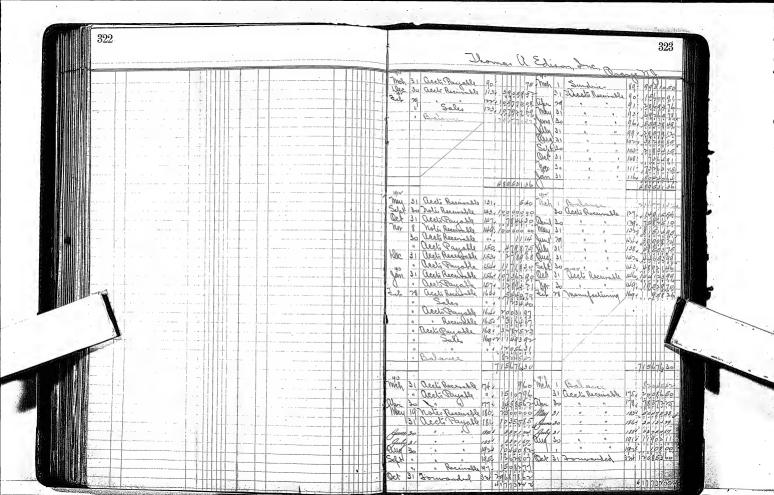




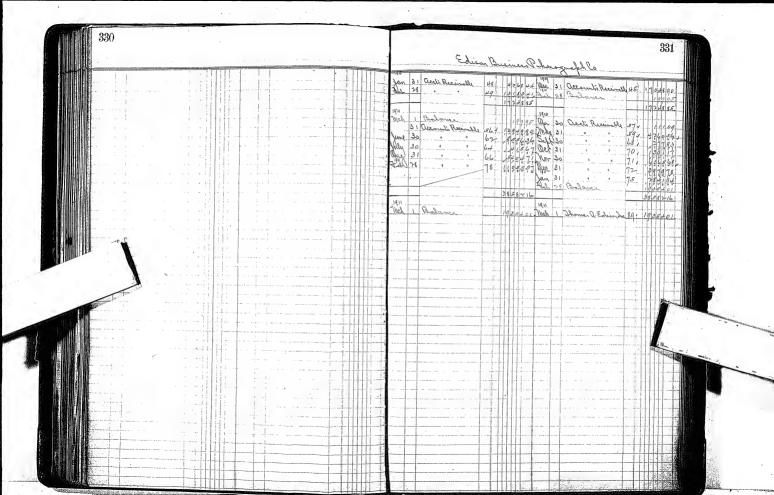
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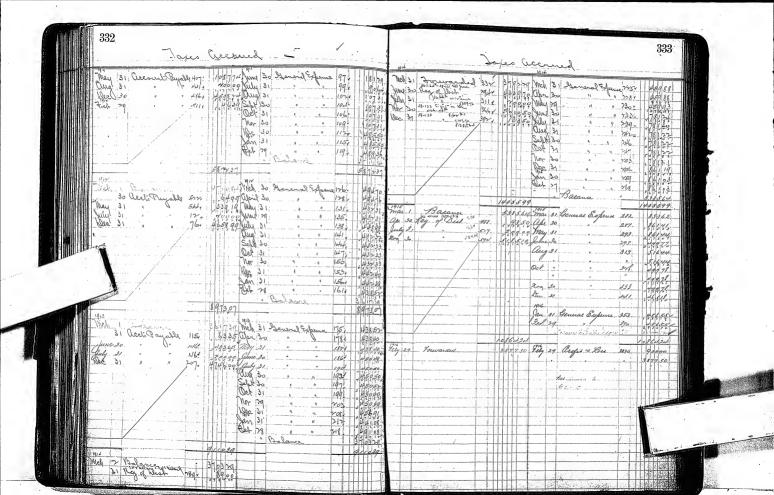


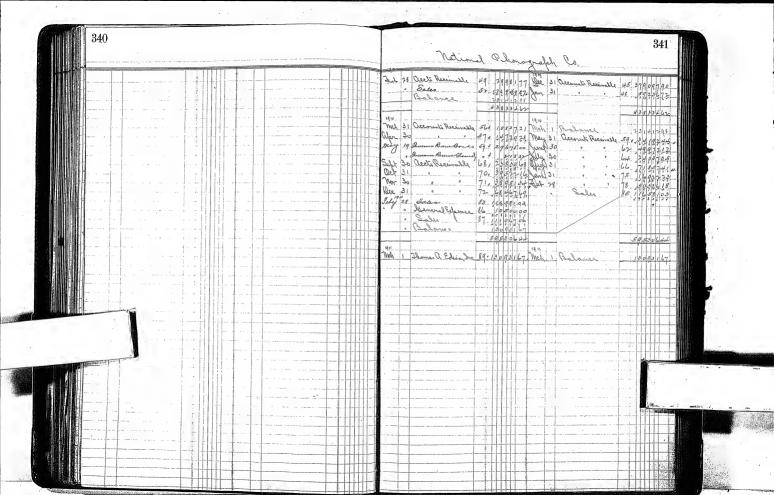




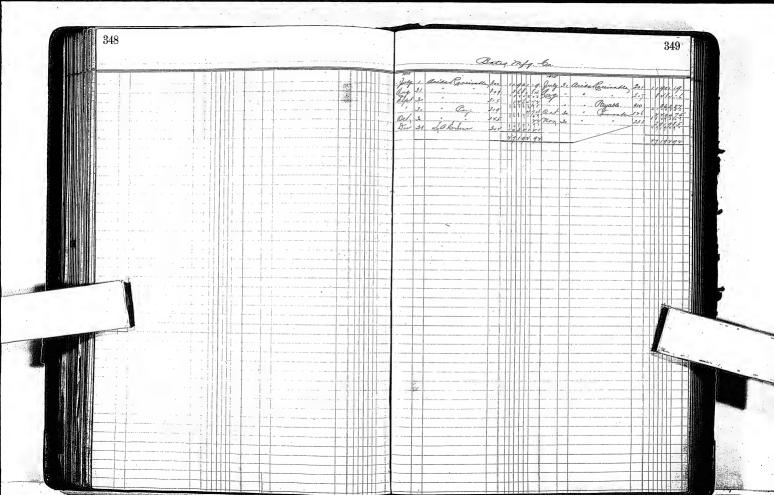
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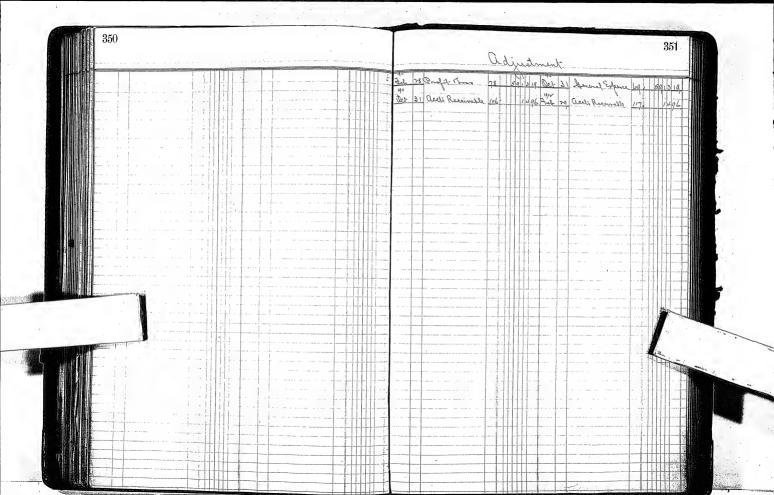




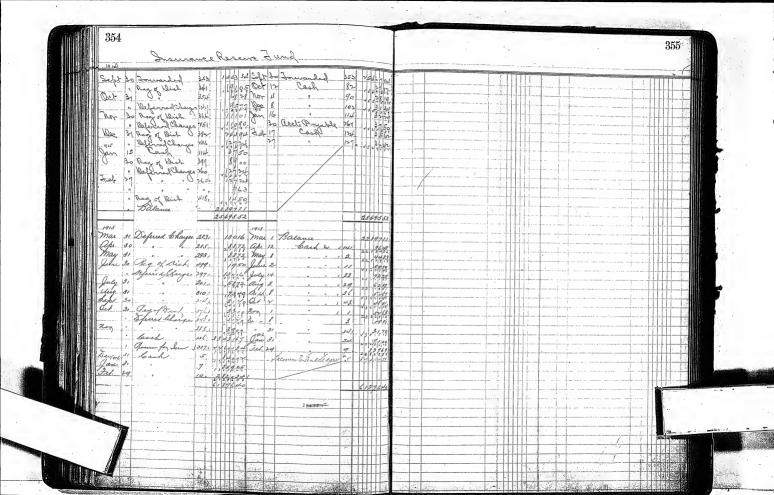


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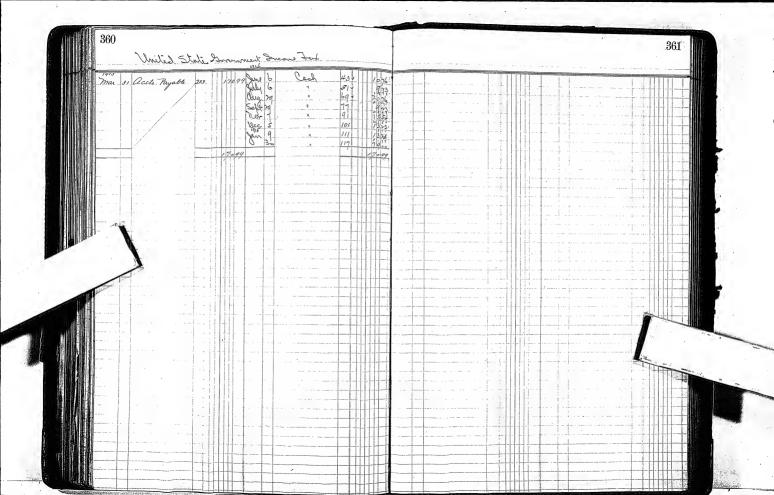


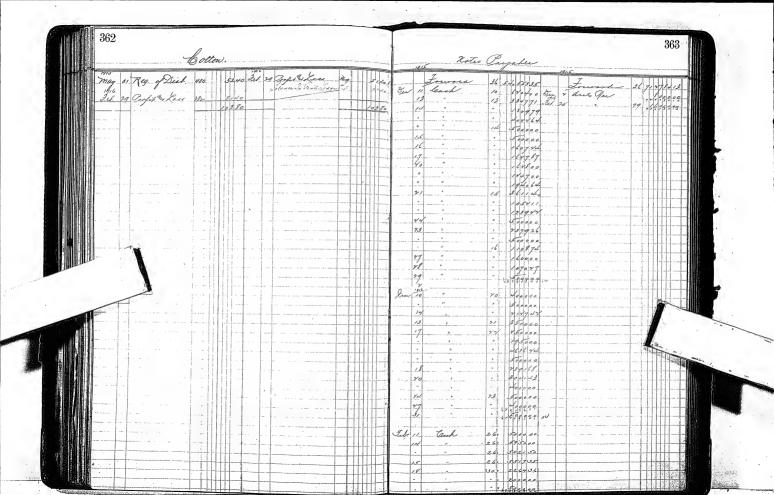


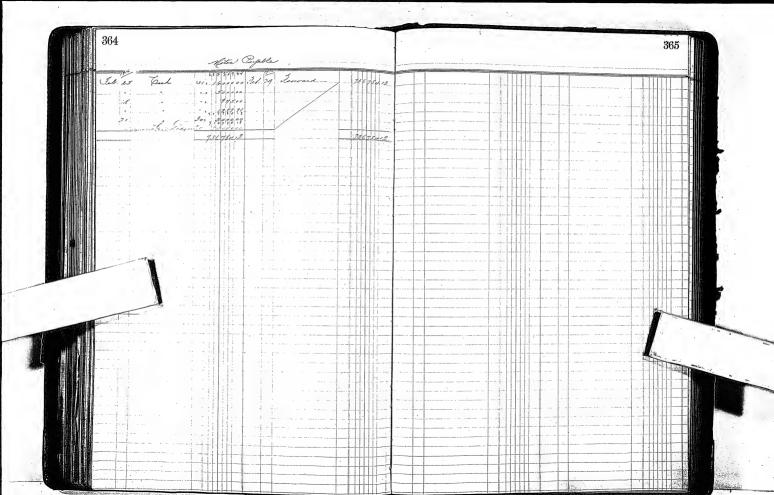
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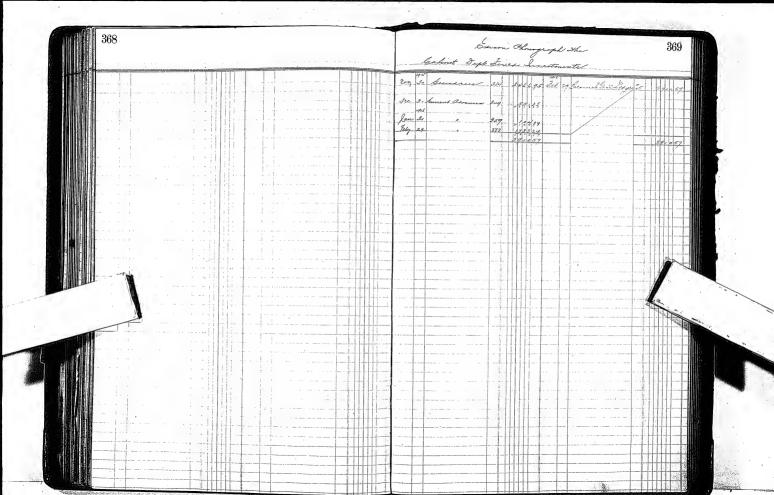
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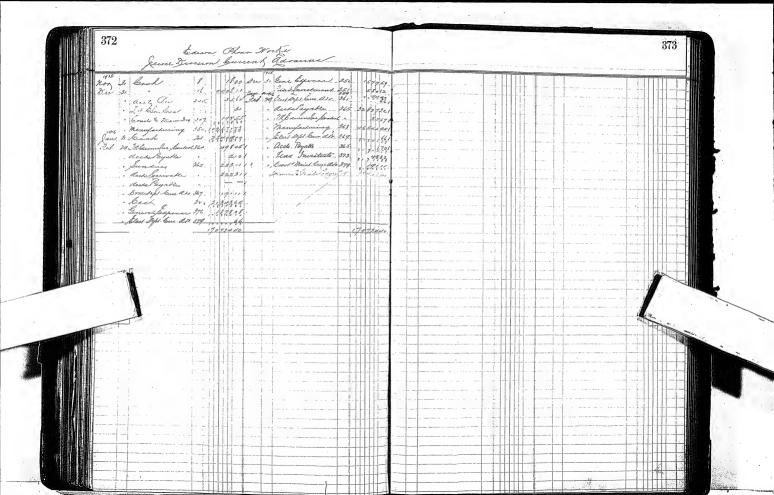
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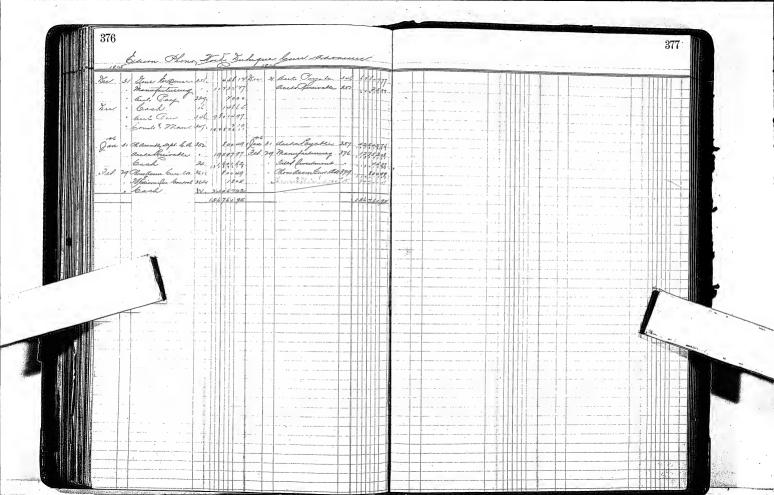
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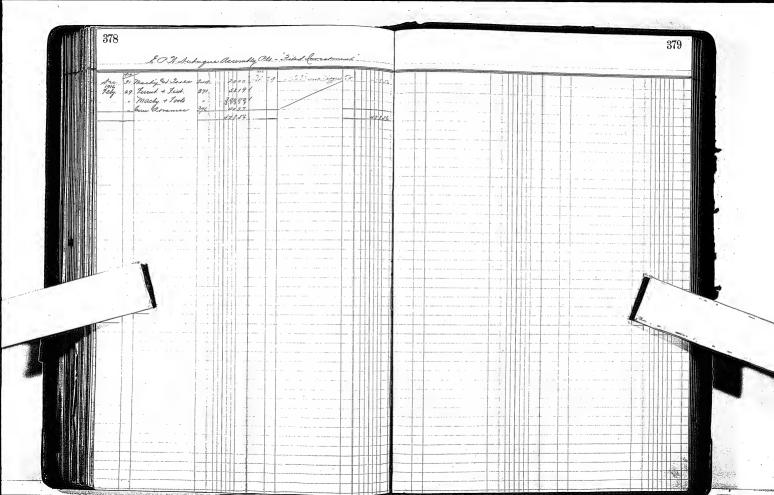
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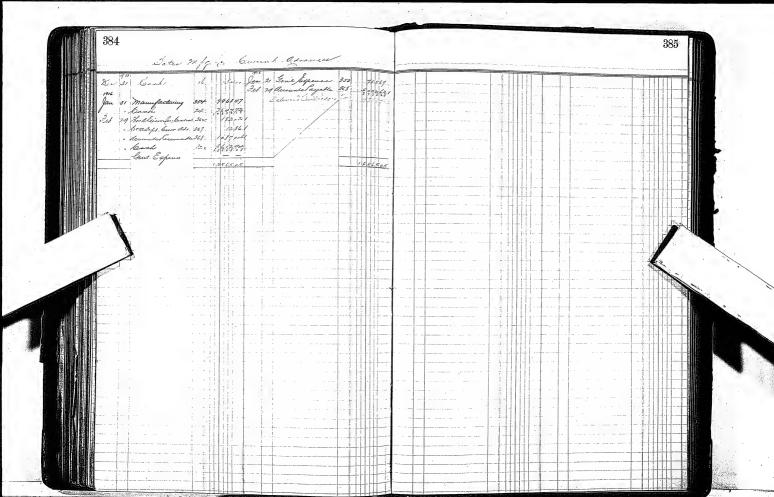


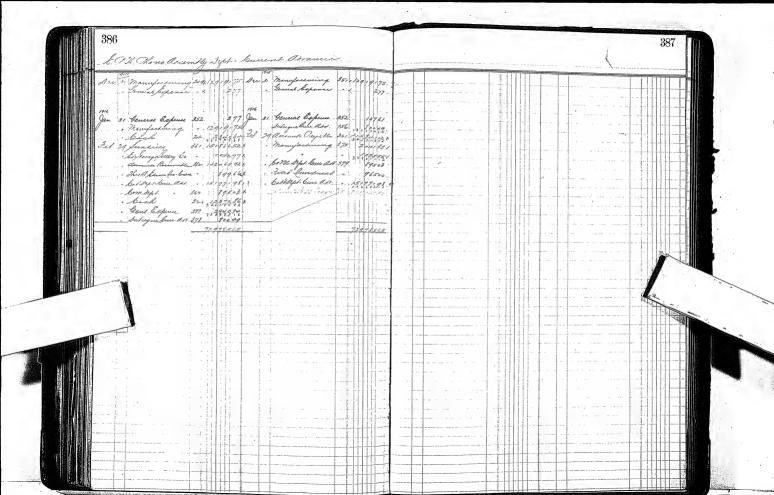


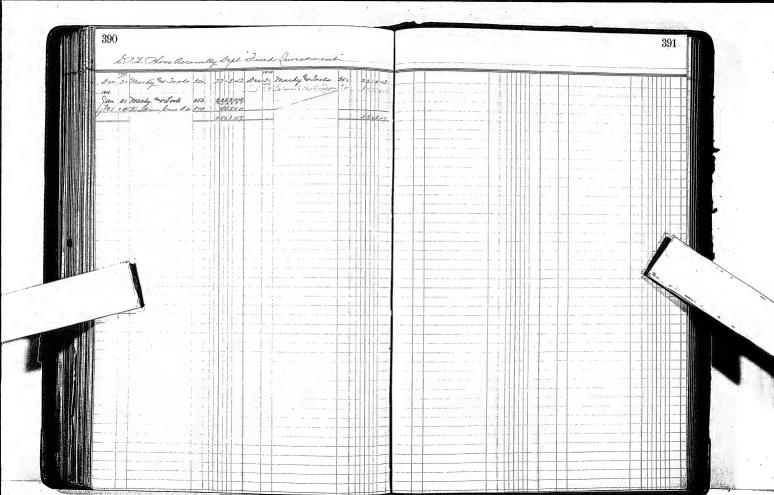


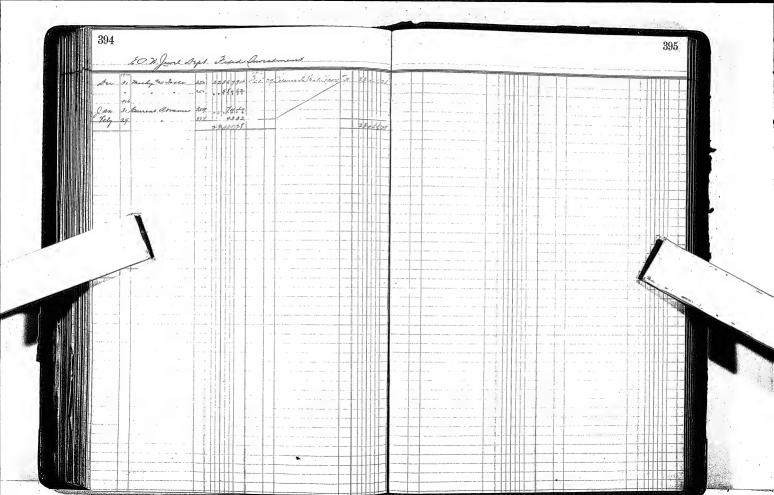
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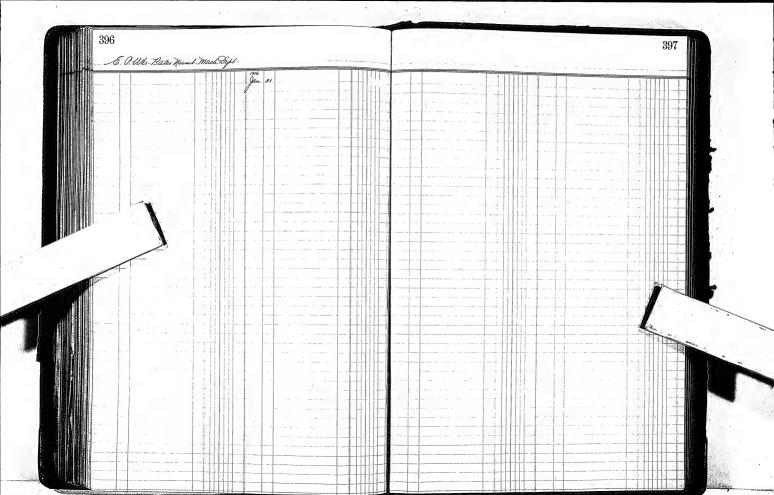
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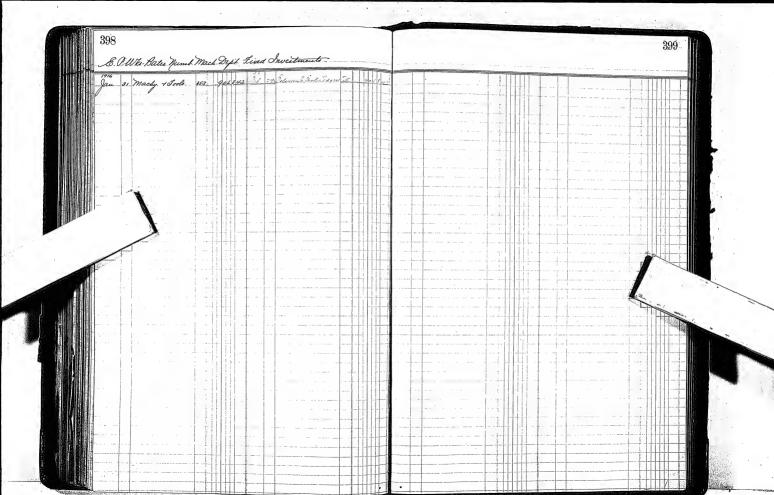


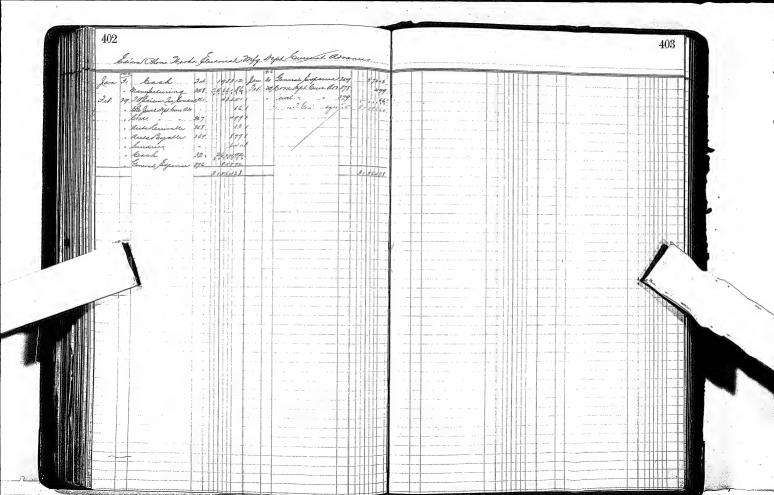


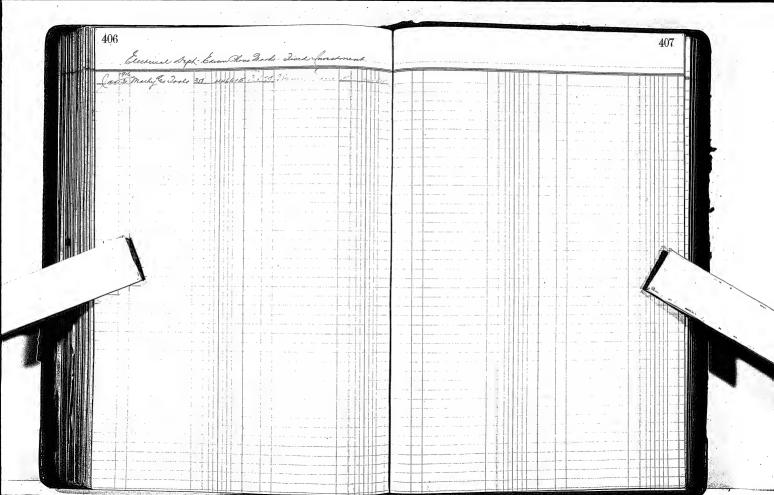


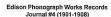






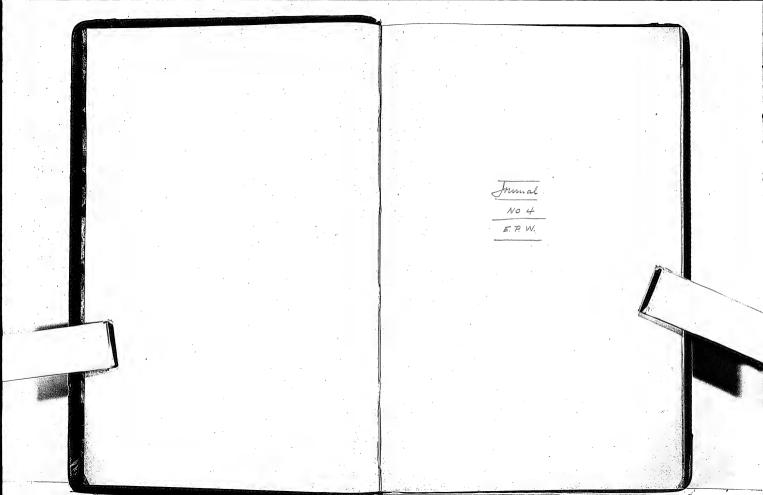






This journal covers the period February 1901-February 1908. Chronological entries provide information about transactions posted to various accounts and recorded in the general ledgers. The spine is stamped "Journal No. 4, E.P.W." and is labeled "Feby 1st 1901 to Feby 28th 1908." The book contains 401 numbered pages; some pages are blank. Entries on pages 148-208 are written in faint green ink and may be difficult to read.

[REDUCTION RATIO = 16:1]



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Orange M. J. February 1901 Jo Legist & Love

Jon Justite realized on the following accounts during fiscal span ending

1 Phonograph

13 Dates Clute & L.D. Machines 11, 523, 12

55 Dates Ruchanders 923, 10 26 Miscellancous 43 Spring Motor 105 m Water 1.250.45 898.62 547.30 37 Projecting Lindscope ... 55 Raw Material Sales 1500.63 745.97 169 Calinet 9462.12

Orange n.J. april 1901 Orange n.J. April 1901 16 V Individuals and Coe General Expense 5875 go Individuals and Cas To Individual Que Cos amount of Pates Interest " Discount allowed in settlement of accounts for month of april 1901 as recorded Cash Boof & folios 1 to 5 inclusive 62 Individuale as Con 44 Bates accts acc To Individuals and Coe Transferring amount of april Vouchers from Ir Co Ledge into Bates accto Rec General Expense Doop keeper Publishing Co Bates accts Rec. Amount of Cash Discount deducted in settlement of accounts during month of April 1901 as recorded in Each arol Book Reeper Publishing Co 35.00 13 General Expense 164 andividuals and Cos To Individuale & Cos amount of Sales for month of april Transferring from Pater accts Rec Ledger amount of Water Extra Expense for the 1901 as recorded in abstract of Saler folios april 1901 into 14 th to 148 both inclusion to be credited General Ledger acch as follows Expense Sales 4. Bates accts Rec Pates Extra Exponer 1.00.00 Manufacturing 20 13 General Expense 162 Individuals Wil Con To Individuals and Con Salary for month of april 1901 Transfer to correct error in posting bill 31207 apr 24-1901 4 & Bates accts Rec 600 24 W. Bernard Wilmington MC 600 16 Individuale and Cos To take out of Cropis & Joseph amount of the Jes Johnson & Changes to Suspense out Je Johnson & Changes to Suspense of Je Johnson & Co. 35

Bates acct acc. 35 Bates accts Rec WN Barnard Nartford Ch 6.00 Bates Suspense

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	Onange N.J. July 1901	Orange ng July 1901	Tall the same of t
	74 Beneral Expense 10000	the Specialists of the Col	±
	de la distinguale 4 Cos 10000	To Individual 31 C	-
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	League from Pates accts Oco League. "14 Pates accts Dec 100.00	14823 acted June 2 191 to account of Beo Micery Co, posted in error to account	
	1/2 Pates Extra Expense 100.00	5 Jos Muere Sons 48 ca	-12
	75 Several Expense	of Sue Min + C 48.00	
	163 To Individuals T Cas. 14722	164 andividuale & Cos. 247,50	
	Growth of Patie Interest & Discount allowed	Transferring account Cayaly Nowcher 24750	-
	July 1911 as recorded in Cach and the	13973 dated May 31-1901 from account	
	14 Bates acot acc 47.22	of Goodyear Vulcanite to to account of Vulcanized Rubber Co; their successors	
	1 General Expense	New Condition Co. their successors 102 Goodspar Mulcanit G 247.50 200 Mulcaniged Author Co. 247.50	
	J. mainanale Cos	5/	
	Malary for month of July 19.1 M & a. Edison 1000.00	Sundrier To Individuals & Cas 4302371	-14
	16th Individual 40 Coc 42021, 36	amount of invoices Vouchered during month	
	To Sundries 22 12 12 15	ments folios 249 to 255 both melinin X	
	Genous of Sales for month of July 1922.  agreemed dust Sales files 161.to 165.	chargeable to 1143625	
	soch unchegive to be credited as follows	24 Machinery & Joole 16643	
	74 Seneral Expense 11939 183 Sales 4,08992	3. Furnisher & Footbace 1619.	
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	164 To Individuals W C	00000	160 To Individual V Cou 2001	
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	164 Individual at Cost	481566	440 0 + 0 + 0	
	122 go Notes Vayable.	A58566	10! Trenge Mfg G 2001	
	notes issued as follows. in settlement.	7	#14 Satis accts Clary	
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	"Mote dated aug & payable Dec 8. 1885.		164 Individuale & Cov 15-	
	" " " " " " " " " " " " " " " " " " " "		164 To Individual Tax 75	
	12 Pridochast Pross Co 4115	Ž	Transferring amount of Cash returned to P.	8
	12 Dridgepurt Prace Co 4.1.15.		Deducher Mfg. a. through Cety Carl from	
	165 Individuals & Cos	500	I Tax Ledger unto Pate acet Pec Ledger to	
	160 To Individual & Co	300	44 Bate acct aw TV	8
	Transferring amount of Cr 33125 923-1901		213 A. Sinchey Mily Co	
	to account of Olanters Bang & Trust Co, the san	ee	205 a D Souther Mfg G . 15	
	having heen deducted in settlement of account	6	9/	
	this day.		16 Undisiduals W Cos 4635223	
	14 Plats acet Rec 300		To Sundries	
	1/4 Pate acet The 3.00		Agreement of Sales for month of au quel	
	210 Clanter Bury " Trust C. 500		1901 as recorded in abstract of Value folios	
	3		74 Beneral Expense to be oredited to 18926	
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	accts Oec Ledger the amount of Inv date		164 Go Individuals & Cas 106.19	
	Speller 27:1901		2% Commission on Sales of auto Thurs Macho	
	105 Toopkeeper Ouslishing Co 15.00	1	YBates Mary formouth of august 1911 as	-
	8 Buther Carlo	-	recorded in aletrack of Sales folio 171	
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Orange M.J. August 1901 Orange n.J. August 1901 Sundries 153 Sales To Manufacturing To correct distribution of Bill " S1013 Amount of Material Transfers former of of August 1911 as recorded in Agencia of Mishingament falso 362 Changeall to 1st General Expense dated July 17-1901 which was credited to. Special Shop Order in error should be Material Sales 230.00 Miss. 24 Machinery W Tools 109 Special Shop Own "265" 56 Material Sales 176 Manufacturing Miscellaneous 958.27 14 General Expense To Individual y Cov. amount of Bates Interest Descount allowed in sectionent of accounts during mouth of august 1901 as recorded in Cash Book 45 folios 23 to 27 both inclusion 4/4 Pates accts Rec 164 Individuals + Cos To General Expense. amount of Cash Discount deducted in settlement of accounts during month of august 1901 as received in Cash Book "5 folis 23 to 27 both inclusive Dundries amount of Invoices vouchered during months of august 1901 as recorded in Register of Disbursements folios 257 to 263 both inclusive chargeaste to General Expense 34 Machinery & Toole 11 Manufacturing 64 Individuale W Companies 3416095

44	Orange nj. Si	stetember 190!		. 0	en 0	45	
	Country of			- Tran	ge NJ September 1901	***************************************	
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Orange N.J. Octor	lw 1901	Orange 71.9 October 1901.
Jolie Accumable  To Motic Accumable  To Indiadact the day spayable Stely 1079  To Berman National Band Neward of apply on accumable  To National Observed of Males Dayable  Mote issued this day spayable Jan 30  at Eleman National Group Reward on accumable Surface Add from the accumable of Apply surface and the form of the performant of Melon of Melon of Melon of Melon of the performant of Melon of Melon of Melon of Melon of the performant of Melon of	22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 2202000 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22026 22020 22026 2200	164 Individuals & Coe  16 St. write off amount of their square deled  The write off amount of their square deled  The 16-18. The same being modeliable  The Cate Accordance 1400  The Coe Surprise 1400  The Coe Surprise 1400  The Ondividuals & Coe  The Grandfuring from It Coe  The Coe Surprise 1400  The Coe Surprise 1500  The Coe Surprise 1500

Orange 11 9 October 1901 Crange N.J. October 190, General Expens 100000 Sundain To Individual " Coe To Individuale & Cos. Salary for current month Amount of Invoices vouchered during. month of October 190 as recorded in Registion of Selectures much folios 271 to 270 bed inclusive Chargealle to 64 Individuale & Cox To Notes Payable General Expense 1386452 Note issued this day payable Jan 12 1902 W Machinery W Toole 80369 at German National Bank Reward Mg 31 Furniture and Fixtures 9136 in sectlement of account in full to Och 1911. 49 Real Estate W Buildings 10 Manufacturing Companie 5197388 16 Individuale & Cos 7091293 To Sundries. Amount of Sales for month of October 1901 as recorded in abstract of Sales folios 179 to 183 bock inclusive to be credited as followed 74 General Expense 153 Sales To Individual and Cas 2% Commission on Sales of auto numb Micks & Bates Mder for October 1911 as recorded in Abeli Salu folis 185. 14 auto Mund Machines 5034.25 Les Miens. Macrone.
Sees their to good the 1970 1400 on the 100 for suppose your 1000 25.25.26 100.40 66 Date Mdee 5214.21 1 104.25 101 JW Gladstone General of Material Transfer for mouth of October 1901 as neconded in Cogneting Rechesterent folio 018 chargeast to 74 General Expuns 24 Machinery W Joole 176 Manufacturing

	Grange NJ November	1901	Orange ;	NJ November 1901	55
181 To a Jon	7 196-90 " 394 " ht 252.25 " 507 "  4 342.28 " 485 "  4 164.10 " 228 "	lace !	Heneral Expense  To connect distribution of  Noncher "1864, dated Do 1  amend him changed to Ga  of General Expense  Hogy 1971  He Co Gass Matrial  18 Sedividualis & Co	mufacturing to Material Transfer 1991. The above to Material meeting.	7
He Ben Je Gone oir As a such 44 Oat	to act Pres 3356 ( Others G For Det 3566) crat Expense 9 Individual of Cos unt of Pates Indicate discount attend alternated of account during mond of H want of account during mond of H want of account during mond of H account of accounts during mond of H account of accounts during mond of H accounts accounts d	2072 2072 by 1912	Manufering from J. G. Jr.  Meet Over Ledger the file.  20 Jetter Culty G. 42 10  6 Stewart & G.  20 Whete Saguery Out; G. 4 3.  44 Oate Acot Che  206 Jetter Dutty C.  N. Stewart & C.  211 Wester Saguing, Outly G.  (11 Dordiniduale & G.	100 1000	
Juan Juan Mec M. Bale M. Bale T. Blen III	ral Expense Jo Individuals & Cas eferring amount of Date Extra Expension Date at a superior of Troumber 1901 from Date a superior December 1901 from Date a superior December 12500 Tral Expense John Dadwiduals & Co. The Current month		It To transfer amount paid to John Joe our account to Evil He grant to Evil He To account to Evil He To account to Evil He Evil A A Ca 7. 37 Edison May Co 1. 30 Edison May Co 30 M. Sordiniduals Y Cos 30 Inc	of though Myly Go	75
Jr Thes	To away month		De transfer amount of colle on account of HAMary for mark Dale Accts One for must Dale Accts One 12 Med Hack accts One 12 Med Beef Occ 12 Med Beef	pr DE Cos Ledger	

Orange NJ Novamber 190	V	Orange 27 y	November 1921	
30		.30		
181 Individuale & Cos Jo Sundrice	6612257	Sundries		[1]
and I Sales In mornish of November		Amount of Material Brans of November 91 as recorded Westwarements folio 286 ch Heneral Expense 29 Machinery & Fools of Machinery & Fools of Machinery	efacturing 1572684	
Argument of Sales formersch of Merender 1900 as recorded in Abstract of Sales John 1846 in the 1846 of Sales John 1846 inchina to be credited to		of november 1901 as necessary	ers for monch	
18 11 to 188 both inclusive to be credited to		Disbursements folio 286 ch	morally to	
Jeneral 6x pense	1 20/9/	74 General Expense	298061	- 23
ws Soles	6592066	189 Machinery W Goole	2.2	
N3 Sules	11194	176 Manufacturing	1274594	
To Individuals & Cos	11194			
2/ Commission on Sales of Anti Mund Mach + Bates Male for movement of November 1901 as recorded in abstract Sales Joles 188				
as recorded in abstract Sales Jolis 188				
! deel Humbering Machine 5317.49 21 107.75				
66 -43 - E 20				
7. J. Bladelone 111.94				-
14 Denural Expenses				
To Sundries	3375			
To correct distribution of bill "21702 16" * AM 1955 - 17th credited to General.			/ ······	
Expense in war		/		
176. Manufacturing				
Mescethan	47.75	-   · · · · · · · · · · · / · · · · / · · · ·		
N3. Sales	1600			
26. Muscellanione 16.00				
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Joseph Ja To Individual + Con	1 2 2 2 2			
I Then I movices vouchered during month	6487233			
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18 Machinest & Tools 17 Machinest & Tools 17 Manufattung 18 Indistiguate Lee	5104554			
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COMPANY AND ADDRESS OF THE PARK AND ADDRESS OF THE PAR			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

58			59
Orange NJ December	1901	Orange NJ Decemb	n -1901
17		The cold discount of the cold	
18 Individual	457966	18 Individuals & Cas	
Mote issued this day payable of r thm		122	127500
After date respectively a German Nations		Uccepted Death This	ned
Dand in settlement of account to noves	Ligar		varg
Interest assed & 6% per annum		1 0 117-1901	
3 Mor Note 221420		102 Smith Michole 1275.00	
1 2 2295 46		161 General Expense	
1/2 Bridgeport Brass G. 4579.66		167 General Expenses 50 Sales 9: correct on the states	
181 Individuale V Cox	11.32532		21
To Notes Payable	1/32532	100 20-1901 - H Water a. P.	
2 Note issued this day payable 3 rd M.		Seing credited to General Expense instead of acti Numbering Machines	
after date respectively a German National		14 a auto numbering Machines A	
Bang in settlement of Oct , Now 40 lese		3/	
In 1/21. 329.33. Interest added 12 6f puramen.		167 General Expense	10000
11/2 01		18 To Individuale + Cas	10000
9. 9 Weston & Son 43 25. 32		Transferring amount of Date Estra Expens	forder
		- your way week our ded	edge.
181 Individuale + Cos	199	44 Batis accts acc 100.00	
90 Individuals V Cos.			
To carried chat part of Journal entry of Nov 3 relating to Stewart Las account the amount	9,	1 General Expense	100000
therein being an ever.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	To day did to the	100000
"I Bates acet ace 100		Is This a Edison 1000.0	
35 Stewart & Co 199		1000.00 1000.00	+ <del></del>
Stewart W. Co. 199		81 Individuale & Coe	+ · · · · ·     · · · · · · · · · · · ·
191 Individuals & Cas		91 To Produce de Co	7/
191 F. Individuals + Ca.	2252	Transferring the following items paid ofiron	gh .
	0252	Transferring the following items paid throw Petty Cash from I too League into Bal	
ac Ledger the following them the Bate ach		Acets Acc Leager 4 Bates Acets Acc 17	
105 P. 16 2 200 160 1/13 161 1/15 25 6.88		12 Baum garter TCo 19	
		or Noye Bres + Culle 58	
200 Janua Ma fg. Mrs. C. 1/21 1500 Mr Ox. Batu acots Res 2257	2	of Baumgarten To 19	
Mr Mennel C	2	02 Mayes Bros + Cutter 58	
Book Ruper Oubly Co			
I Hoof Meper Oully C 1500 The Jown My Olor Co 64	,		

Grange IIJ December 1901. Orange NJ December 1901 161 General Expense To Individuale . Cos To Manufacturing Angumb of Bates Interest & Discount allowed Jonann of Material Transfer twenty much of December 190, as recorded in Cegister of Dishusement foils 29th Chargoalle to 19 Benear V Tools in sectionent of accounts during month of December 1911 as recorded in Cash Book & folios 46 to 50 both inclusion 1/4 Bates accts Rec 16 Manufacturing 181 Individual Tos Amount of Sales for munch of Secunder 1901. as recorded in Alliact of Sales folios 199. to 194 both inclusion to be credited as follows 167 General Expense 153 Sales 119 Machinery & Toole 110 Magnifacturing 3, To Individual Y. Con 2% Commission on Sales of auto Nums Macho +Batio Merchandie formenth of Dec 1901 as recorded in abstract Sales Folio 194. 14 Gets Humbering Machines 4625 74 81. 9257. 66 Bates Merchandier 27940 559 J. W. Bladetone Lundrice To Individuals & Cos Umanut of invoice Vouchered during Accember 190) wrecordedin Clegette of Richorsemult folios 25.8 to 294 both inclusion chargeable to 167 Seneral Expense 189 Machinery & Toole 1379174 31 Farmeture Fretures 115 Bates Furniture Fectiones 136 Manufacturing 4018

	Orange NJ. January 1902.		Oranze NJ January 190	63	
	3				
	18: Individuale & Cor		181 Individuale "W Cos		
	Two Notes of 2000 anche payable Mar 3 1902		122 Te Notes Oayaste	90248	
	ly a - I to I at House Making	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	accepted Draft this day payable one month	4	
	Dand Neward RJ wreading note the china day Senous notices to of personner that I sand I senous of the senous open so		after date B German National Bank New	and	
	this day bearing interest to 5% per annum		M in sellement of account to Jan wing of Greencam Oil & Supply C 982.48	<sup>*</sup> ***********************************	
	note acted Mich 3 2000 to		232		
	18! Individual V. Cos	2735	181 Individuals W Cas	160943	
	181 To Individuals Cox	2745	accepted of all this Rotes Payable	160943	
	Clereived this day Note payable on month		accepted Draft this day payable Homonthes after date & German National Clary He	1	
	new Naver Com in set lement of				
	account to Dec 1-1901 Interest added.		1/28 - 351 - V 130 324.45 Obuterest and I	· ·	
	from Alec get a 6% per annum		9 They 22 1922 a 61 per annum 1609.42		
	44 Bates acets acc 2735		1 9 seeson 4 son 1609 43	<del> </del>	
	101 Batis Notes Cecurable 2735 44 Batis accts acc		122 Motes Payable	10000	
	100 Valentine Stamp Co 2755			200000	
			To Cancel our Note dated dept 211 1001 10	c	
TO THE	18! Individuale W Con	27	being renewed the day		
	Jo Deneral Expense		105 Clonbercy Steam Poiler Co 2000.00		
	Interest added to Note received this day from	-	181 Individual and Cox	100000	
	Valentine Stamp Co. Sayable Fety 9-1912. Account as per Ledger 27.01		122 To Notes Canally	and an	
	amount of face of Note 27.50		accepted Draft this day payable two mon	de	6
	My B - Interest a bof27		after date at German National Dany New renewing our note of sept 24-190,	art	
	100 Volutine Stamp Co 27		Bearing interest @ 6/ perannum		
		-   -   -       -	105 Clombrock Steam aviler Co 1000.00		
***************************************	181 Individuale " Cos		31		
	- 124	160942	176 Manufacturing	76	
			To correct even in distribution of Material	76	
	applying a Dec - allonal Want Newart		Gransfu Voucher 16241 items credited to		
			Mars Material instead of General Expense		-
	9 attestin & Son 1609, 42		155 Raw Material 76		177
				Sheeter	,
			7. (17. (17. (17. (17. (17. (17. (17. (1		
					. ` .
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

64 Onange NJ January	1902		Ú	ranse no o-		65
				range NJ January	1.19.02	
		900				
11 Individuale No Cose Jo Individuale XL			/ Sundrice			
		000	176	To Manufacturing		1/2024
Transfer to correct entry in Abete Sa Batis Bill " 346 93 changed to Aichard a	4 6		Je transfer amo	ent of Labore & Va. 1		17/2/2/2
should be Oritebrard andwer Co	Contract Con		M. rerusp wealt 128	24 46 Th and i 1 1 "	a 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
14 Bates Occts are						1 1 1 1
100 Pritchard andrews Co 1.00						1 8
"14 Pate Geet Red 800			where ugle up to	and in al. i . m.		
211 Richard Andrews Co 8.00			176 Thanufacturing		nt !	1
/ الح					88512	
167 General Expense		25	126 Ca Miscellance	oc 18512		
181 To Individuale & Co		225	189 Machinery W 3	T. 1.	24 , :- [-] [-]	
To allow 2% Cash descount on the follows	ug		rbor Muscellance		23512	
accounts entitled thereto and not previous	ily				72	
deducted	-1-11114		111 Individuals V	Car		
"14 Pates accts Occ 225			181	To Sandinid of TC	64	
215 Montague & Co 16			To transfer from	e I- Cre Ledger into Bati amount of In 1/7-1902		644
219 Sawyer & Steyer !!			acct Rec Ledger	amount of In 12.10.		
1 219 Force + Co 1.98	-411		200 Jower Mar //m (	6.1		
181 Individuals Var			15 Hatie Occate Ches	J		
1811 To Individual of Co	122	2/	2/3 Tower Mfg. no	C .64		
Translina		12221		20		
Pates acets Beer Ledow of De			181 Individuals + (		184422	
Dates acct The frague the following client 100 MM Force "W Co In 14 1620" MM 6" "MA 6" " BH			122	To Note Payable		184422
HIRITAN TO THE			Gave this day ou	· Note payable & months		
4 Dear America VC 11/2 ver			after date a Germa	on national and news	M	
Nates act Pro			le apply on Hov a	cch. Interest added 10 6/1. p	ed	
Ma Jarce VC				Company of the Compan		
			1 reageport Ter	ac G 1844.22		
Shea Smith (6) 36.0	o l		181 Individuale	rC.		
167 9 8 .			122	To Notes Payable		184422
181 Mac Jack	48	7	Gave this days on	a. Note parable of month	<del></del>	124422
167 Denural Expenses II 18 St. allow 24 Cash Shirt on Mrk Salw mu during obtention go.		4.87	after date a Germ	a Note payable & mouths an National Bang New	and I	
during olicember 1901	Ce		in settlement of	November account Inter	ut	
			added a 6% per	annun	1 1 1 5	
Gross 24692 Gusto 350	+		1/2 Bridgepart Bra	y Co 1844.22		
24332	+					
	1-1-1-1-1-	1 1 1 3				
14 Bate acet. Occ 4.07	+					
1 Natural Chons C Foruger Dept 487	<del>                                     </del>					Transfer and
7.0/						- 中国的美国

66	Orange NJ January 1902		. 0	67
	J. J. J.		Orange N.J. Junuary	1902
	31			
19	3 Sales	9000	181 Indicadual V Cox	
13	3. go Sales	9000		152 791 16
	To cornect distribution of Bates Bill 34491		- Granul of Sales for month of January 19	202
	active to auto numb Macho melias of Bate Midee		Granul of Sales for month of January 19 as recorded in Abstract of Sales folio of 500 both anchonom to be credited as follow 161 Beneral Solvers	14
	auto Numbering Machines 90.00 Pates Merchandie 90.00		200 Soth inclusion to be credited as follow	4
	31		167 Beneral Expense	1078
16	General Expense	12500	3.	0007000
10	To Individual y Coe	12500	153 Sales	
- <b>B</b>	To transfer amount of Bates Extra Expense		181	12028
	for much of Jamany 1902 from Batio acci-		2) Commesum on Sales of aut nous	2-0
4/5	Patis acot Ree 125.00		A Bates Mase for the month of January	1902
1/2	Batis Extra Expense 125.00		as recorded in aketract of Sales folis 1030	0
	31		14 Mule Mune Machines 580 6 32 21 111	
. 167	General Expense Jo Individuals VCos.	100000		
11/	To Individuals o Cos	100000	Jours Marchandere 308.28  Sour 30857 Credited to GE on Margan 40  Oat 111	
			7 JW Gladstone 30161 27 6	
//	Thou a. 6 dism 1000.00		3.1	
10	Individuale & Cox		Sundries	
111	# 0	875	181 To Individual v C	5175511
	To transfer from Do Cos into Pates Ocal - Po-	8.75	General of Invoice Vouchered dwing mor	-ch
	Ledger amount of Cash returned by us		of January 1902 as recorded in Pregister of	·
Ale:	To pranefer from Ar Co Instructurale News of ages amount of Cach returned by me through Detty Cach to Edwin My Cachoide. Date decid Pece		Chargealle to	une la
50			167 General Expense	1,008,514
202	Callen 8.75		189 Machinery W Tools	20628
			31 Turnture " Tixtures	11419
167.	General Expense		26 Real Estate W Queldings	62419
The state of the s	Garden C.	6511	176 Manufacturing	1211794
	mount of Bates Interest or Descount allowed	6511	181 Individuals & Cos	5505
	or settlement of account during current nearth a recorded in Cach Book to folios		Sundries	
	to 57 Lock melusion Cash Book #5 folios		176 To Manufacturing	270348
1/5-	Pates accts Rec 657!		amount of Material Transfers deving in	
	667/		Hannary 1902 as recorded in Registe	E of I I I I I I I I I I I I I I I I I I
			Distursement folio 302 Chargeable to	
			of January 1982 as recorded in Register Richard The Changealle to 187 General Expense	12/25
			189 Machinery & Goole	12/351
			17 Manifactioning	1138434

Orange N.J. February 1902 Orange N.J. Tetruary 1902 of Notes Receivable Notes Receivable To Individual & Con To Individuale & Coe Received this day national Chono Coi note Received this day National Chons Cos Note. payable four monds after date at Berman National Bank Newark Ng applying payable four months after date to German National Dans Neway ng to apply on 2/11 National Phonograph Co In Mational Phonograph Co. 2500.00 63112 18 Individual and Cos. 182 Individuale & Cox To Notes Payable To Individuals & Cox accepted Draft This day payable one month To take out of Bates Suspense the amount after date at Berman national Bank Inv. 1/21-1899 which was writen of 3/281901 Newark ng in settlement of Ins 1/28 +902 Sunt and Michale 631.12 15 Bates acots Rec Bates Suspense Bates acets Occ 165 Dividend CN Gardeen To Individualy & Cos For a dundend of 125 per share on all stock 182 Individual W Cre of the Company entitled thereto as per resolution To Individuale & Cos of the award of Directors at a Special Meeting To transfer from Oate Acct Oac Ledger with I car Ladger the following items Stream of Co Sur 1/13 25 1/10 - X.El held at the Edison Laboratory Mest Orange Mg Monday Feby 10-1902 10 19 clos am alinesped 10 102 Chas Balchelow BoogReepen Oublishing Co 1/29 1500 100 Mrs Thos a Edison 15 Pates acct Recewable 101 AB auchinclose 250. 312.50 1 Samuel Insull 16 Stewart & Co 8 Boogkeeper Publy Co 100 International Graphophone Co 1430. 1787.50 Stewart & Co 19 Thos Of Edison 2072.21.259046 Book Ruper Pully C. 100 John F Randolph 102 John & Gilmere 82 Individual & Coe 106 & The Cheeney. To Individuale & Coc 10 Das DW Cutting To correct error in posting Bates Rill \$34573 436.75 545.94 706 Watter Cutting Same being poeted to delit of Scarff + O Connor 317. 396.25 instead of Scharf Tag Label voor Co 4814.40 6018.00 100 Scharf Jag Label Port Co 1.30 Bate acet Rec : Searff + O'Connor Co

70	Orange NJ Teknany 1902		Orange N.J. February	71	
			J. Sebruary	(1902	
176	Manufacturing a li Elmin	38	167 General Expense		
267	go peneral Experience	71	92 Individual VC	10000	
	To correct error in distribution of Raw				2
	Material Voucher "16488 dated Jan 14-1902.  5 gate Bergins Chydle All should be Japanning.		Expense forguerent month from Ba	E	
121	o Japanning 18		Expense for commons of Class toplar acts Och dedger unt Demeral Ledger 4/5 Bates Accts Clee 1000		
	21		To Pates Extra Expense 100,00	4-11444	
167	General Expense To Individual v Cos.	636	28		
	To allow 2% Cash Disch on Het punchases	636	176 Manufacturing 28	092587	THE
	twing month of January 1902		176 The Go Manufacturing		7.
	twing month of January 1902. S18-33		Transferring to Misselfacturing account the amount of Lake & Material Charged to Dianophine Esperimental, I.		
	Credits 30		Charged to Cianophine Experimental 9		
4/5	Bales Grefs Rec 6.06		V attachment		1 1
	Malional Chono Co For Dept 636		126 Miscellanione Orders 5925-87		
	28		145 Cianophone Esprimental 1769.		
1/2	Individuale & Cos	2433	14) - Stole 1813.5	2	
	nanafer to kalance account of National	2,40,33	28		+
5 KH-1613.	Biosecon also, le Chennes		Sales	960488	
2/72	Valional Phone Co Ohoman 21 23		Transferring to Miss clamers Orders	960488	r. [
2-			account the amount of Sales credition.		
	National Phono Co Chicago 24,000		Tallen Alaman Est. A tall to Oct 1	6	
Ind	ndividuale & Car	2500	71 Diansphone Experimental 294.86		
182	To Cardinia 1 & C	2500	75 " Goole 2962.09 73 " Attachment 6247.93	+	
	transfer from V Cos Ledger ante Pates cot Our Ledger amount of Ins Maryon, Myfelly Co. 25.00		26 Miscellaneous Orders 9604 8		
200	9. A. Kelly Co		2%		† <b>188</b>
(E) N(B ) / // :	(I) adia ( / cate ( / ca		182 Individualy Con	200	1
200000000000000000000000000000000000000	DU 1121/10 1		82 - So Individuals & Con	4 30.0	
167 8	leneral Expense So Individuale Var		To write off balance due same being		
182	To be did a	100000	1/1 Bate acet Rec 200		
	Talary for current mout	100000	3 Pates Suspence 200		
79.9	Jalany for current month has a Calonian 1000,00		"W Batta accts dec 200		
			213 Bennett Ousles Stary Co 200		
					· ·
				1 2 1 × 2000	

72 Orange N.J. February.	1902	Drange N.J. February 19	73
31	11163 64	38	
176 Manufacturing To Manufacturing	146364	163 Sales	1772
Transferring amount of Labor Material		182 To Individual & Cas	1702
Changed to offerral Allah Order account		- Wales Males for comment	
to Midellaneous Order account .		as recorded in Usetynchol Solin	
139 Apecial Shop Order #265 1463.64		14 Juls Mund Macher 3721.76 3/ 114.43 66 Bate Mase 169.61 " 339	
28		7 J. Bladstone 18961 " 339	
Sales To Sales	108929	18	
Transferring balance to credit of Special.		189 Machinery W Toole	9589
Shop Ordel account to credit of Miscell.		To transfer amount of Lam W Material	9029
109 Special Shop Order 365 101929	*	charged to Spec shop brow 573 from G.E.	
26 Miscellaneous Ordere 1089.29		to Mrg de	
		139 Bond Interest	
167 Beneral Expension Tungton V Festives Transferring amount of Labor Whatris	6701	16 90 Mahaid Chard Out	4 5000
Transferring amount of Later & Material	6701	amount of alond interest due on Company	
Charged on Special - Shop Order "60 to		Series "9 remaining inclaimed and	
Several Experie account		unpaid Gely 28-1902 and subject to demand a	
ym Individual V Cox	876	" Taid 7450.00	
167. To General Cox have	876	1822 Individuale & Cor	
Growint of Cash Discount deducted in		1 To Sundries	10973343
Sellement of accounts deveny month of Thereny 1902 as newded in Cach		Amount of Sales for current mouth as	
Book 5 folios 51 to 63 both inclusive		recorded in abstract of Sales folios 202	
167. Beneral Expense		167 General Expurer to be credited as follows	7.86.02
	7585	189 Machiner & Tealer	484401
	75.85	176 Manufacturing	300
The control of the dell's and a		28	10410040
in Cash Book to Salin of the		1 Sundries	
inclusive Jack		Governot of Material Transfers Journarch of Situary on	1394697
He Bate acet, Rec 75.85		Umount of Material Pransfers formant of Telemany 1902	
		as recorded in Tegestin of De humanut folis vog chamale h	21/58,47
		Machinery W Toole	6692
		31 Ferrentine V Festures	17 11 42 151
		176 Manufactung	

	Orange N.J. Tehwary	1902		Orang	e II J. Tebruary 190	75	
	31	- Company			January 190		
NV Indi	Viduale "W Cox	672		Sundies		1 -         - 1 - 1 - 1 - 1 - 1 - 1 - 1	
	To Vardini duale V	Coe III	0 12 18.	Jo.	Individuals + Coe		
Jo well	is of sundry debit and credit bala ing in the following accounts in the accti Occ Ledger Feby 28.1901	er III	tit-1				
the Ba	ter accts Over Ledger Fely 28-1901		176	Mire Co from EMfg Con . Manufacturing	toke to 60 Whe books		
45 Clates	accte are	-	3 1	1 m. =	A service of the serv	11093	
3 Bates	Suspense 672		167	General Expense Edison Mang Co	7,0,45	375	
222	Pater accti Rec 67	62	2/1	Edison Mang Co	114.68		
100	F Brighthell Pas Inglie Jr	25		Sales 28			
205. 9	TE Seesling Meyer & Thatheimer	07	176		Manufacturing	S25-	
214:	Meyer W Thathemer	//		To transfer amount of s	alex credited to Only	5 2,5	
2//	Bruce Clerley : Dewald Stahn	09		To transfer amount of S. from Sales Ledger to M. Japanning	annifacturing Ledge		
	Chau K. Tuttle	07	61		- / - / - / - / - / - / - / - / - / - /		
100	Y S Walter . 6	374	121	Japanning	5.25		
220	7 6 . Down and	03	177	Manufacturing 28			
21.5	mer Exchange Start	15	167	To.	General Expense	1040906	
211	ile Felggeorge Horn & Co Flower	25		To transfer 6x pense dire	My chargeable to	1040906	
2/2	1 Police	06		Dates Mfg Cas business			
211	19 Hours	06	27	auto numbering Machin	us. 10409.06		
21.5	Holyete daringe Bong	/4. FEHELEH	177	Manufacturing 28			
203	Reform Statemeny Co	*4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	167	90.	General Expense pro.	794219	
2//	Manual & G	선사 - 11 14 - 11 1		To transfer amount same Box Factory account to c	ting to credit of		
220	I talman			Box Factory Account to c	redit of General Expense.		
204	France France	January 1984					
200	referring the Boss down		134	Box Factory 794	2.1.9		
J. Jundrie	28		153	Sales		492360	
187	9.0. 1.1		1.53	q.	Saler	492360	
Comment of	Disturment for month of Tebruary 1902 and Regulting Politicanunt folias see to 30 g houte	360	9.95	To transfer balance star Scrap account to cred	eding to credit of		
. Accorded in	Regulanfolishorsements folias sout to son hast	0	-	Scrap account to cred	s of Chonograph 9c		
161 General			702	Scrap Phonograph :	11923.60		
1 Machine	and the	1413658		- Snonograph	720.60		
Walley Walley	1. W. C	158244					
A Charles from	W S .	82440					
2 manufo	etiving wals v Companie	355					
Individa	rale v Companies	2800					

177 Manufacturing 95 Manufacturing 397620 The distribute property Islands existing on Japansung account 121 Japansung account 121 Japansung 2000 397620	39,7620	Orange M.J. Tehnany 19er
to Manufacturing		189 machinery & Jools
To distribute property Islands wishing in Japanning account 3976.20	1 7 7 7 1 2 2 1 1	113 Se Class
in Japanning account 397620		To transfer amount of his 32 29 3/2191
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The systematic state of the system of the sy		26 Miscellanions Orders' 671,98
60 (Monigraph 179.56639 3249.45		38
126 Muscellaneous 14301.85 25880		189 Machinery W Toole
151 Spring Motor. 10795.79. 19537		13 Daley
106 Fan Motor 6816.02 123.34 128 Proj Kinetoscopy 5241.24 149.26		To transfer among of fell 23280 928 1912
219.728.29 3976.20		credited to m 49. The to Misculanion Order 9/2
0 - 21		26 Miscellamons Ordin 2701. 26
8 Profes & Loss 4027566		177 Manufacturing 2
HILL I RECEIVED		189
To write of the following accounts	1-1-1-1	Transferring amount of Jahr "W Mater of
165 Rividend	1560000	Transferring amount of Labon "& Matinar! Suggest a gained Spec Shap Order "197 from
165 Mundend	2527560	Mit Canto Muscellamone Ordere Je
1 Profes to Love 3003		126 Miscellaneme Order 6485
182 To granting love Co.	ttt  t	100 100 100 100 100 100 100 100 100 100
To transfer from Pates accts Over Ledger with	3003	17 Manufacturing 7699
		19 Total J. Backmay & Tools 7099
for fescal year ending Jeby 28 -1902		Te traves for amount of Labor & Material changes against spee shop Order 225 prior to Mar est
Dates Ucci Vec 3003		got from Mr. I ge with Miscellanen Order &
Jate Suspense 9003		126 Miscellanione Ordere 71.99
189 Machinery & Tool		28
- W3		177 Manufacturing 31.602
To transfer and I Day	136182	189 96 Machinery & Toole SINON
	†† ††  <b> </b>	Getransfer amount of Laker & Material charged
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180 Machinery & Toll.		Miscellynian Ordone aft
1, 10		126 Miscellanione Ordere Get 02
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		177 Manufacturing Pro 61
26 Mixcellaneous Orders 108.90	-	189 To Machinery 4 Tool
1.00.70		managering amount of Labor "I Material
		Inanafracing amount of Later & Material Charges against yer Shop Order 124 from M.J.
		26 Miscellamone Order 810.61

78						79	
Drange.	Mg Tebruary 1902		Ora.	nge NJ Tebruary 190	02		
2.8	100	526		10		TITTE	
177 Manufactioning Je	Machinens W Toole	18 11526	, 8 endividuale W	· d. d.1	264946		
to transler answert of	Labor W Material changes		To charge Nation	at Phonograph Co with as with make profit on wat 18th 202708.48	n	2649461	
against spec Shop Occ	educe.		Thomsgraphs es	nt te make profes on			
126 Miscellamous Orders	1845,26		Total Cost	302708.48			
16 Thomas Expenses	659	1.2.3	Less mentory.	48039.09			
	Machinery V Tools	65933	15%	20000			
To cornect errors in die	tribution of accounts	1-1-1-1-1	Profite shown by t	0-38200.40 edger 11705.76			
as shown in As policy of a specal year ending Fe	Rubursements during	,	2/1 Mational Phone	G = 2/10461			
dital attached to voiche	2 1 1912 as just		2 Phonograp	28 26494.64			
27	· <del></del>		100 Sales	- d.1	429807		
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To covered ernors in distri	ribetion of acel	35786	90 credit Mation	al Chonograph Co with			
(Sayable Conchere 14158	8 5.25 met		on Wax & Spr	ficient to reduce Profits			
14412	2 2700 Od.			Wax Spring Motor			
25	1 G b 1 Mac.		Gotal Cost	19413317 1700668			
153 Saler	2300		Less Inventory.	154249.28 15109.04			
To transfer ourself Con	Sales	22000	1.5%	23137.39 2266.35			
by Course of easter and 3111	1 1.1. 1. 1-		Profit asslimm ty Ledger	64498.77 3885.69	-11111		
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M. 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	250.00		The Mational C	Phono Co 42.980.72			
? Profes & Lose	6 24541	14	17) Manufacturing	_26	16603680		
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			To distribute prorata	General Expens & Depreciation	·		
incurred during fiscal y	rear ending Fely 25, 902		6 Thonograph	65.976.76		361	
			28 Culo Humb Mach	ines 16300.99			Page 199
			143 Wax.	44163.73			
			101 Spring Motor	3966.62			
			101 Spring Motor 106 Jan Motor	2504.36		A Comment	
	The same of the sa		128 Prof Ninetarcope	23810.74			196
			103 Edison Motor.	5863.14			
							and the same of th

COMPANIES COM

Orange n.J. February 1902 153 Dales To Manufacturing To transfer cost of Sales of the following accounts for fixed year ending Tety 20 rgs. 251.669.39 2 Phonograph 14 auto Humb Machines 66 Dates Merchander 44 486.91 1418.76 154249.28 26 Muscellaneous 105 Fan Motor 31 Prof Somerocope 11 483. 63. 69. Calmet 1837. 4. 97. 56 Paw Material Sales 1954. 35 For Chapti realized on the following accounts throng friend year anderly Tely 18 1962 153 Saler 14 Cuts Numb Machine 18295.42 66 Bates Merchandies 1345.96 23137.39 26 Miscellaneous 44 Spring Motor. 2266.35 600 75 56 Raw Material Sales 38 Proj Sinetoscope 167 Derevul Expense To cancel Journal willy made in some (see the 18 semant being understand pre vata furtherism of General Expenses

Grange My March 1902 Orange MJ March 1902 182 Individual W Cos 182 Individuals W Cos To Notes Payable To Individuals & Cos Save our Note dated March 3rd 1912 payable Transferring from I Cas Ledger wite Bates four months after date @ Berman nail acts Ou Leagu amount of Invaci 1/10-190 Dang Neward M.J. renewing Note dated 12/30-1901 Que this day Bates accts acc Samuel Insull 1000.00 Stewart 34 Co mIndividuals y Con 182 Individuale W Cos 3779 05 to Sundries. To Individuale & Cas accepted Drafts this day dated Man 8 1902 To transfer amount paid the shirt Through Sety Cach chis day, from Ir Cos Ledge with Bate acct The Ledger at I and it months respectively payable at German National Dans newars Mg. in settlement of account to Mar est 1902 "H Bates acet Rec. Interest added a 6% per annum Cc Notes Payable (3mos Note). 216 Geo Stiel 9 Westin an Sons 167 General Expense To Individuale & Cos 182 Individuale W Cos Salary for Current month Thos & Edison 100000 To Sundries accepted two Draft this day dated Mar 11 1912 payable three and four months after date respectively & German National Dang 18 Individuals and Car Newary MJ in settlement of account to Jan let 1902 Interest added from Mare let so To Individual & Con To write off amount in dispute as per instructions of Mr Gilmore 6% per annum Cr. Notes Oayable (& Mos Note). 1 Bates acct Clex 3 Bate Suspense 1057 "16 Bate acet ace 1057 John Toler Sins T.Co. (4 Mas ...) Edw Timpton 10.57 182 Individual & Cas 167 General Expense 366970 To Sundices . To Individualy & Cos accepted Draft this day Saled Man 12 1902 at I and & month respectively payable to len National Bang Neway MJ in sellement amount of Cash Discount allowed in settlement of Bates account Recewable Jacons to Jan 1st 190 Interest added
6 1 per armen

On Mole Payathe (OTHER Note)

Mish halfor (4 "") during month of March 1902 as recorded un Cash Book #5 folias 64 to 69 both 4/5 - Bate acct Rec Bridgeport Brase Co 3669.70

Orange MJ March 1902 Orange ng March 1902 Ji transfer amount of Bate Estra Espens for myself March 1912 from Date acct. Over Jedger into Beneral Ledger. He Bate acct Cler Ja Bate Este E V Sundries To Individual 7 Cos Grant of Dichorsements wouchered during month of March 1902 as recorded in agretie of Lishursment folior to be both inclusion.
Chargerthe to.
167 General Expense
169 Machinery & Fools. 1346397 167 General Expense 5256074 177 Manufacturing To Individual 7 Cos 182 Individuals + Companies To allow 2% Cash Disch on Met purchase for Tebruary 1902 amounting to 102.44 Dundries National Chons Co Toruga Dept 205 To Manufacturing 1622482 Amount of Material Transfers for month of March 1912 as recorded in Register of Distructural Experies for 7 chargearts to 186 Machinery & Jool. 182 Individuals V Cos 6561689 To Sundries Amount of Sales for month of March 1902 313129 as recorded in abstract of Sales folios 21/2 to 217 both inclusion to be credited as follows 177 Manufacturing 1502455 167 General Expense 189 Machinery W Tools 29950 6521312 150 Sales To Individuals W Cos. 21. Commission on Sales of Bates Mdee. Vaute Numbering Machine for March 1902. asseconded in abstract of Sales folio 217. ales on amount of Organis for mouth of Televisory not included informal entry for that mouth A Cute Numb Machines (March) 5563. 85 · (Repairs Febry) 18969 572054 / 11447 66 Bates Merchandin 251.94 . 503

86 Orange N.J. April 19	20.2	Orans, 200 a.
		Orange My Agril 1902
1 Deschiedwale v Cos  3 Note Payable  Secretid Braft this day payable to days after date at Berman Plational Gardy Theward II in stillment of account to Mar set you Interest added a follow to buy mitual on Jam You 30 Empire branchated Nine Co 18197  10 Dendividuale v Cos  Iransferring from I ver Ledger unti Make acto Ree Ledger de James added in dettement this defluxing items added in dettement this flowing items added in dettement this for you in the still the Josephin Bladding Callown his point agent so The Decent Co you're to still 10 Jin Decent Co you're to still 10 Jin Decent Co you're to so 10 Jin Decent Co you're to so 11 Jin Swart v Co 12 Jin Dedividuals v Cos 12 Jin Dedividuals v Cos 13 Justice of amount standing to the debt of J 14 Jana Anading Co we having this day accept 14 Dedividuals of the amount standing to the debt of J 14 Saturate of a decent 15 Date accept Cos 15 Date accept Cos 16 Descharate of the Saturate The Bate accept Cos 16 Descharate of the Saturate The date debt on y payable light of you at Demand Jan 18 John the Land of rememing that The dated this day payable light of you at Demand Jan 18 John the Left day January Saturated D. rememing that The dated this day for a fundament Jan 18 January the Left day January Saturated D. rememing that The dated the day fundament	2996 2991	188 Elemenal Expense  10 action 3/ Cash Discount on Not perchan  Reving month of March 1992 32.21  11 Patrinal Chorn Co Grego Oliph 7.24  1 Natural Chorn Co Grego Oliph 7.24  1 Natural Chorn Co Grego Oliph 7.24  10 Individuals of Cos.  10 Joseph March Oliphon Co anoth amount of Joseph 1987, Sealey of Samue hing applied in section with of dair account on Natural Months Cos both 1987, Individuals of Cos.  100 Stealey of Co assigning amount of Joseph 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980, 1980

88	O 200 April 1200						89
American har yell his yell of the control beauty and a large	Orange N.J. April 1902				ange M. Gouil ,	902	The state of the s
168 Den	unal Expense	10000		153 Sales	30		
182	To Individualy flow		10000	183	To Individual & Co.	11951	
Jo Dec	usfu amount of Pates Extra Expen	ec	+	21 Commissions or	· Saler of auto numba		11951
for a	whenk mouth from States acets the	1-1-1-1-1-1		Machines Mates	may but all a		++++
Us or	to acto Rec 10000	I -					
	Extra Expinie 100.00			Com and and and	Men off to Suspense acc	and it	177
				- wordy France &	april 1902		
168 Gene	ral Expense	13.75	-	66 Sates Mase	am a cont	416	
189	rad Expenses of Machinery & Tools red distribution of account Payable		6276	14 auto numby Mac	the wygens.		
To car	reck distribution of account Payable		100	. Les Suspense (Efin	ypton) 1087	4 - 4   4   4   4	
Vouc	ner 16885 the first lover item. me but				truda G1 1533 2590) . 110	ser	
71.191	= 11.95 tung charged to Mchy & Toole			7 JA Gladston	5975.49 119		
in er	non!				31		
180 Mac	1			Sundries			100
N3.	hinery & Toole Sales	29953		113	To Individuale Y Co.		7195050
To corr	ect distribution of Bil 23541 3/21-1911	- f-pH-14-141	29950	Granut of Destur	ements vouchored during	9	
wuch	was credited to Machine & tol			month of april 1	or as recorded in Regist	ta li	
me a	d. of Mescellanemis Ondered			of Disbursements	folios & to 1st both incluin	us	
26 Cr -	Miscellaneous Ordere 299.53			chargeable to			THE STATE OF THE S
	.2.6			168 General Expense		1104281	
Man	facturing	26218		31 Furniture W Fr		163 89	
Total	To Machinery & Toole		26218	177 Manufacturing	eurev	6060931	
	sfer amount of Labor & Material charges spec Shop Order 496 from Mar ut 190			183 Indusdual To	metani.	4529	
up to an	of including days offer from Mar let 1900 account into Micellaneous Order				30		
day From	's account into Missell from Mchy			V Sundries			
12600 M	scullaneous Orders. 262,18.			177	Jo Manufacturing		1770741
				Gowand of Materia	el Transfers - for mouth		
1 Indus	duale VCos	6374103		of Upril 1902 as	recorded in Regreter of		
1	Jod , To Sundries	05/4/03		Distursement fol 168 General Expens	is 1d Chargeable to		
arreco	of Sales for month of april 1902		1	177 Manufacturing		1532845	
ti 225	of Salu for month of April 1902. I salu for month of Salu folionary. Soch inclusion to be credited as			11/ Manufacuring		2002040	
follow	V be credited as						
168. Den	was Expense						
		+++++	18325				
117 Man	refacturing	1 63	55750			1 1 1 1 1 1 1 1 1	A Price
		1++++	28	+			
	The second secon	<del>++++++++</del>		+			
		TTT++++					

	90Orange 91.J. May 1902_		<i>(</i> )	91;
	Mange I. y May 1402		Orange n.J. May 1902	
	12			
	183 Individuals & Cox	620	153 Individual W Cox	
	183 To andividuale & Cov.	6200	183	2.6
	Transferring from Ir Cae Ledger into		To credit account of Jacken Stationery Co with amount of new Credit 3307. 1201911	2.5
	Dates accis Chee Lidger the following		with amount of our Gredit " 33071 Person	· · · · · · · · · · · · · · · · · · ·
	Datis accis Rec Sedger the following survoices deducted in settlement this day. 41. 0 44 0 44 255 4/2 4 49 45 49 45		The state of the street of the	
	6 Stewart and Co 6.20			
	1/5 Pates acets Oce 6.20		3 Pater Suispense 25	
	3/6 Stewart WG 6,20		Hr Batis acets Oliv 25	
	19		203 Jackem Stationery Co 25	
	13 Individuals V Cou	84422	18 Individuals & Cos	
	123 To Notes Vayable	84422	183 Manuanale & Cos	2,5-
	accepted Draft this day payable 30 days		To transles of my To Infiniduale & Cas	25-
	after date at German National Bang Neway		To transfer from I & Cox Ledger into Pater accts Pic Ledger amount of our Bater Cusic	
	ng in settlement of account to May ut		33071 1/201901 paid Through Cetty Cach	
	5 Generican Oil & Supply Co 8 LH 22.			
	165 Dividend		4/ Pates accts acc	
	183 To Individuals + Cos	601800	203 Jackson Stationers C. 25	
	For a dividend of 125 per share on all	601800	260 Jacpson Stationery Co 25	**************************************
	stock of the Company entitled thereto as per			
	Museum of the Court of Spreeting ale as	ridd british - H	183 Individuale of Car	16040 73
			183 To Individual V Con	1604073
	The Grange II May 2-1902 This to		To transfer balance standing to credit of	
			J. a Edison to account of National Othors Co	
	102 Chas Patchelon 312.50			
	100 Mrs Thoras Edison 37.50		2 Maternal Chonograph Co 160 sto. 73.	
	102 Mart 1 2590.26		168 90 6 816	
	Me Frank Column 3750 No Water Cictury 259026 No Ja DN Cutting 396.25 No Sk Cutting 546.25		168 Herrerst Expense 31 Junitur V. Fretteres To cornect distribution of accounts Congother	145
	8 ONE Gelman Sus get		To correct distributions of accounts Consoller	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	1000 matrice at 100 0 11		To correct distribution of accounts Payable Voucher 17054 changed to Fritin error	
			31	
<b>2</b>	100 J J Mc Chesney 6.25		168 General Expense	
	of J. Gandolph 6.25		183 Ta Individual & Car	890
	6.25		To allow 2% Cash Discount on Net	
	0.20		purchases for april which amount to	
			19652	
			19652 4 Batu aceli Res 3,93	+
			" National Chow Co Foreign Dept 393	<del></del>
6				<del></del>
				The state of the s

92. Orange 91 J. May 1902		Orange N.J. Ma	93.
183 Individuale v Cov 4 4 4 70	00		
Je Sundrier		168 General Expenses	7901
Gave this day two notes payable three and		Amount of Bates Interest or Diccount	2 V Cov 7931
for month after date respectively. D. German			
Mational Park Newary M. g. in sellement. of account in field to May let Interest added			" of felin
23 Hotes Cayalle 3 more		How hat and inclusion ash Blood	
123 Notes Payable 3 mos	203000	45 Patis accts Recewally 1931	
	204000	183 Individuals VCos	574,055
9 (Bleston & Son 4070.00		7	
168 General Expense 1000	20	Ground of Saler for current men recorded in Aletrack of Saler folion 232 both more till	th as
To condenidualist as	100000	recorded in albetrack of Sales folion	227.6
to Those Or Edian for current month		1332 both inclusion to be credited as	follows
1000.00 1000.00		No Sales	
168 General Expense 1250		31	5484224
183 Jan Individual - Win		183 Individuals & Cos	879
Transferring amount of Pates Extense Spine for Control ments from Dates Accept the States accept the S	12500	168 To General Exp.	ense 879
for current month from Bates accto Ric		Amount of Cach Discount deducted statement of North Invoice during	m.
15 Det Cart Beneral Ledger		as recorded in Oash Book 5 folis 8	may
To Pates Extra Expense 1250		131	
		Y Dundries	
183 Individuals & Cas		183 To Individuals	~ Cac 61251689
183 The write of amount of Bato But "3669 3/2-190" as per unchreations of Millonone Gerales of the Colombia	1400	month of Disbursement's vouchered in	d during
3/29-1907 as he wat to 1 That's 75iel 36689		of Destrusement toling 16 to 11 lock	original in the second
Goods bed in transit	4 1 1 1 1 1 1	Chargeable to	
N (lote and a		168 Beneral Expense	1259665
Date Supporter 14.00		189 Machinery & Tooli.	196089
106 This acts the		183 Induladual & Conspanies	3905
When Humphry To 14.00		31	
183 Individuals & Cos	11111111	1 Sundries	
7/3	-	177 To Manufactur	ing 1546 d 30
naus for to apply amount of Nearly Cos Ins 927	300	Genount of Material Transfer for me May 1902 as recorded in Tegester of Dub	onth of
Grans for to apply amount of Skaly ras free \$7] against their account on Mart Man Gr. book.  11 Hally & G. 3.09		John 21 Changeable to register of Alub	ursenuile
2 Mational Chonograph G 3.00		Jolis 21 Chargeable to 168 General Expense	27.85.96
300		189 Machinery W Toole	127
		177 Manufacturing	1267707

10 Manufacturing 30  10 Manufacturing 30 Manual Expansion 1499 1990 10 Manufacturing 30 Manual Expansion 1499 1990 10 Manual Short Short Surper Mit Super Manual Clary Manual Short Manual Clary Manual Clary Manual Short Manual Clary Manual Clary Manual Short Manual Clary Manual Short Manual Clary Manual Short Manual	94 Orange N.J. June 1902		Orange NJ June 19er	95
As there the say me The Superhit Amends  of the date of General Reporting of Manufactures of the Control of Manufactures of the Superhit of Control of Manufactures of the Superhit of Control of Manufactures			0 0 0	
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148 Orango N.J. July 19	03	Crange 719 (mey	149
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		17 Maryland agricultural College 15 14 Bates aceto Rea 15	
10x Chas Batchelor 248.84 # 310.00		203 St B. Madonuell W	
100 Mrs Thomas a Edison 30. 37 50		as I Ma Domiele 15	
101 H. B. Cuchinolose 2vo 31250		187 Individual or Cos	
1 James Insull 5 675			V0 425
100 Structional Graphophone Co 1430 1787Vo		18, To transfer above amount from	to devi
1 Thomas a Educare 2072.21 2590.21		Prouting Tarly a	
100 John J Pandar & C 10. 12.50		Crentin Tool & Supply Co to	
8 DE Gilmore & has			
102 Unice Dearles 5 625		11 Proute not pupper at land	
100 7 - 1. 77.2 Chancy V 6.25		2 61 216-0 5425	
10x Walter Culting 317 39625		6 4432 197 66 108	
102 Jane Culling Val. 75 545.04		18) Individuals & Cos	
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The second secon		To Charge Tampa Photo & supply Co	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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wiederideralo & Coo	200	10 E1 me-1.	3
to thought the above are occurt from		received by no helmoning to the later and	
Rational Phono Co Ledger to Boths acate		1 (a) . 7 a 4 ( W. + 4 2 . 1 ( a ( 0 . 1 C	
10 National Pero Co 200		3 Edward Infg Co 262	
14 Ratio acets Rea 200			
11 Bate a acta accor 200		187 Individuals & Cos	226
200 CH Oxen Lever 200	+++++++++	- 182 Individuals rem.	226
1781	+++++-+++	To transfer the following accounts	
18 Justividual a 4 Coo	+++++++++	100 James may Hovely Co (226	
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La Correct 12207 128.	1 161	2. Jower rufy' nevelly Co 226	
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1		4 Bates a seto Rea 480	
		103 am martin VC 480	4 4 4 3 4 4 4
20			20 年 人名英格兰·维斯姆 <b>经</b>

162			163
Orange M.J. Mavember 1900		Orange ng november !	900
			of county
187 Gredividualo y Cos			
182 Individuals & Coo		187 Individual at Cos	44.44
o transfer above amount from	The second second	171 General Expense	4/4/
National Olono Co to Edison Ohono		dinament of Carol Deran X 111 x18	
Dranks Ledger		sis pettlement of accounts Payable	
105 A. Holdge 14.00			
2- Mational Phono Co 18 55		pecalded in Carl Book " falis is to 149	
No.		187 Federidan Rot Co	
183 Indinidualor Coo	Vagge	187	262
1 Dundries		To town for the following a comment	1262
ino constail Drafto this day payable		4 Bulio Crato Reco 260	
@ 30 7 60 Days respectively, payable		To Tampo Photo y Danpay Co 112	
at Union Hatinal Boux howark my		Tampa Olat V. Deppy Co 212	
with interest a 6 % in settlement.			
of account to Octoy at 1910		171 General Expense	
113 Nato Payable	2 10000	187 Individual VCoo	
Bridgeport Brown 250000	2 50000	Tempering amount of Bates Estin	1
1 1 1 1 2500 12		Expense for mostl of November 1900	
2000		from Bate, and Rea Ledger to	
2. Leveral Expense	<del>                                      </del>	Leveral Ladger	
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in around to cattle on the 12 th		30	
acets Ocea for the 10 21		1 Sundries	
as recorded in Carl Beat of fra: Vitin		2 Feder & Cas	9761851
14 Pates acets Or a 70 12		for amount of morning entered	
187 Individual og C			
	1248-891	1900 folios 161 to 166 malurine	
The Rundries		and chargealer as follows	
That survey of sales recorded in		The state of the s	
abstract of Sales curring month of Movember 1903 to be credited as follows		171 General Expense	1674020
1908 to be credited as fallows		190 Machinery & Tools	56691
190 Marking V Tools		27 Real Estate + Building	44174
Jeneral Cespense	497	195 Quitamobile assourt	135650
Sales Sales	17/41	178 Manufacturing	7846361
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164				16	35
Orange M.J. November 19	200				
			Orange 21 g Deco	seeler 1903	
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for month of nonember 1903		1111	I Bales aceta Rec 70	into	
as recorded in Register of sistements			1 National Phono Co J. D. 07		
folio 161 to 164 incl Changelace to		HILL	209 Novelty adventing Co -36		
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171 General Expense	1 1/1/200	1111	200 Peck Kill Het mange co 12		
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Mark 28 6)	<del>                                      </del>	++++-	# Bates and Be	2=:1, 04	
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Sight 2822		++++	187 - Individe		
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	ite asto Rea # 100.00	-HH	++-+							1111		
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Le Cold	tie estre expense \$ 100.09.	-1++	H-H		1			200	100	1111		
171 General E.	- /			++++	-	200	J. C. Davidson	15	2//			
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si promoto	etllement of Bates accto Rec		++-++	+ + + +	-1	190	Machinery V Joels			108	00	
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1 4 Balisac	to Re- + 58 38	1111	H + H	++++		-	distres serverila di le	of Extate & Building		Щ		
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Sa Justo	the Can !	1111	+		8	187		Individual vos		444		400
11 H Ballo acots	Re- 38 Bate acto Rec.		+-+	HH			To Carrect error in					
144 3	1200	4	+++	HH			Vancher # 12 sept 50 0			-111-		
214 Frankein Ores	2 Co d6		+			-	was charged instea.	Lourn's Expense		1111		Special Property
10 Maxwell TCo	/o	1111	+	HH		1:1:	Ligar) Petty Coal tisks	dated suppose the	- 4	444		
207 M. JKanasa		1111	+++			10	FaB	une barn Or # 46 92		++++		
215 Hyure & Bear 1 x st	lough de	1111		HHH	+	+-+	0			444		
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224 Composato Printe	7 C. AV		+++		-	1	~	Lundries		+++		
BIA			H - H			1 1	For amount of so					
187 Budiriduse,	Ton!	1111		+++	+1		alestrack of salar		+	+++		
1/60	9.1		229	++++	+1	1	January 1908 to be c	redated on frations		-++-		
To surpense	the land.	THH		1 2 29	+1	1717	General	expense		++++		224/5
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" Istates acuts Rec	1229 Bate aut Ru	/			1	1981	· mann fa	curing		+ + +		1/8/7
200	Tro Wheelright 576	THH		111	1	187	0	/	1			
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100	Buwen TIm or			1113	1	144	2 100 1			1111		110/
(4)	Theury Aferin PG 13	THE			11-	100	amount of Carl o			T##		1117011111
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Market St. Co.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					13		44400	457.3		14, 8,3	

170			The state of the s
			17.11
Oracego 22 & January 19	704	Orange 21 J Fahrmary 190	
		Jehrmany 190	04
		20	
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	7806 × 68	187 Francisco Individual, VCo	601800
Juning mouth at Comments weekened			6018001
Register of Declaration of January 1924 in		all stock of the a	
Malurator of have restricted to		therete payable Telemony 30th 1924	
191 Doneral & G pourse	19 178 99	10261 1 B 1 1	
11/2 Machining & Dive	1 5 X 22	102 Charles Betable of 248 440 015 31055	
In Real Estelle V Bulding	1076 96	10 Milyana B. C. S.	
31 Eturnture Y Fir turks	3170	100 h to the stain of	
198 Manufacturing	19042-29		
189 Day Gallery and Col Cours	56 84	Lan Only J. Paris all	
V	++++++++++	8 F. E. Bilmore -	
ng 2/11/dacio		10x Passo n. Cutting	
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for month of January 1848	++++++	106 steple of maliciant	
excarded in Register of Distancements	<del></del>	resoling meet 5. " 600	
John 17h to 161 in close on the organista			
Millian Company Company	Ţ:::::::::::::::::::::::::::::::::::::	140 Band Interest	10000
т Замай Ехренов		136 Unpaid Bond Interest	19900
Machining V. 7-1	1268	amount of Board Interest - Luc	++++++
Y. Cleal Estate & Brief.	3989	Composit 12 Bonds 222 274, 275, Y 2000,	
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		Can 7/200,00	
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	1	157 Individual st Co	10204
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	╅╌┼┼┼┼┼ <del>┈╏╎╎</del> ┼┼┼ <del>┦</del>	amount of Carl Discount	
The same of the sa	<del></del>	deducted in prompt settlement	
	<u></u>	of acoto Payalle during Felry 190x	
	♥	so recorded in and sont to plan 18th go willing	+++++++++++++++++++++++++++++++++++++++
		10 2	
		187 Individual at Co	78.19
		187 7 to let less Individual or co	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		To transfer the feelowing accounts	
		Y Unious Caster & Formery Co 38.17	
	4444 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	John Tolen Dow Co 38.7	
85.6 L			
是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	CLASS SEED COST COST COST		The first of the f

Congray of February 1914				178
	TITLE T	777		Pranger D. J. Strumy 1904
29	HHH	444		
Sto Notes Receivable	113006	+++	+	141 General Expenses
157 Individual 1000		144	0.6	188
Received the day note progette on		+++	+	a fe allowance on ret such and to
the sat of anymat 1908 at Frank ein	+++-+			February 29th 1904
notional Bank Thiladelphia Ca	1111-1	+++	+	Ganguretare 14215 27. 284
for # 1890 %		++++	-	dalso Vieta Countly
Edward Portland Commit Co 11002		1111		Mational Thomas les Foreign Triple 284
Call some bounded to the Control of		1111		
11 Fractividuals + Ca	11/10			11) Frederickular Coo. 1880
189 - Zastindanolot Co			10	188 Jahren Badindusla FCo
To transfer the following accounts				To transfer the following accounts
N Bates acto Red 10.				4 Bates anto Rec. 1880 Bates anoth Res. 4
20 Orlean Iron Works 15				ng At C. Sharer 9 to brank 31 - 4
Dalow Jeon 200 W				1 110 legatherature of the good to Shave up
				July 9 to a Shaver 19
1. Khurret Expense	12000			117 Individual TCo
2 distribustation		1/2	100	189 Individual 260
Barnferring account of Pate				To transfer the following accounts
Edles & 4 paring for moult of Tely		HH		As a second
19 1901 from Bate Costs Ree Ladge to		HH		10 tasse merchante of My 200
Both week Ban 1862	HH-H	НН		4 Bate acets Rec 260
Z Bate Getas Esperas NOV	++-+	HHH	+	110 and muchants of my 250 V
		HH		
March Expense				187 Frederiduals Too
Bredail & Da	7779			188 Individue Too
amount of Court Edward of		+++	122	To charge national Ohous Co will amount
11. prompt cathlement of Bales	H			Baper July & Box Co, cher about how her
The state of the s		1111		
Can 1 13 - 15#1 1 a land		1111		made progetter to Edward Phono Hodes
1 Bother ant Re \$87.70		1111		and the second of the second o
15 India y Cas		TIT		2 National Phono Co S To Emperi Copes July 1885 (12)
58 188 B	149			
Since of town by 1/2 Freder & Con			Kg !	8 Profet & Long
To transfer the following a count			1	188 Individualar Cos Stog 3
# Pate acots Re 140 Bat 2 + B	1			To write off amount of Boto surprise
mi Crade To	1111			for final year enting Tely 29 & gox
	++			
to algonia Command of 2151	+++		_	4 Bates acato au N. 69
	++++			3 Bate Surpeires 35.69

174								44. Ş	175	
Or,	ango My Felermany 1904			Orang	ng February 19					
	72		1			7			7.0	
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	Sundayon		1	(1)	-9		+++k	600		
amoun	t of sales provided in alotras	<u> </u>		To transfer the face	Individual + Co	7	+++	+	600	
of sales	during worth of Febry 1908				1	+	HH	++		46
land to	be credited on for court		- 8	B Consolidated Dafety Oin Co	от Отрения	106	HH	111	11111111	H
	Sales	G06	-2 10	6 Suspense	of a Laughtedter	1				
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			9 10	в Диареное	8 88 Hewark Edge 2001 714	101	Ш	$\perp \! \! \perp \! \! \perp$		
I Sundre	4.2		11 10	6	6 27 Fridule Haffman	1202	Н	+		
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	chuiry & Tools	1230107	+	200		-	Ш			
	al Estato Y Building	908986	1 /2	8 Manufacturing	Many facturing	+	13/	18 98		
<b>1111-</b> 2	amountours 1 th extension	9 0 8 9 8 6.	1	To transfer amount	standing to the credit		-	+++	13 128 98	
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V Sundrie	/		123	3 Japaning	3028.98		Ш		9	
178	20.4	<del></del>	1 7	Charge	pl 13.528. 8/1		44	+		
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			177.6	8 Manufacturing	General Expense	H	2//	1200	1	
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C. G. Garagenes	Cope of the second			from Fratory to the cr	edit of Gamera Expense					
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158	Qualinda de tra	200	4450	v .		Sundries	13.	777 96		
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				amount of Carl Discount allowed in promy		111111	76.69	
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//8	9	dichireduals 100		10000	198		Individual To			11100		
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		40	13/1/0				2/				1	
1	Sundries			- <del>                                      </del>	198 2500	lividuals rcos			+++	1300	+++	
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(00	4	70			2	to General In	of Bates Ester Experience from Bates acuts as					1 8
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	0	Sundries					c. C. parse 1252					
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190		erol Expense		6140	au	unt of carle de	acount allowed			444		· · · · · · · · · · · · · · · · · · ·
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1560					1. 6 354 5 19		AND AND ENGLISH	i ka		John .		

Orange 22 A July 1984		0	198
Orange 2 July 1908		Orangeng July 190x	
198 Andividualo 7 Coo	908	148 Individual so Cos	600000
17 Several Expense	253	J. Sundani	600000
Quount of Carl December deducted in		Save this day two nates to a m. +	
prompt settlement of acets Cayable		@ 90 +120 days respectively to water at	
during month of July 1904 we recorded	+++++++++++++++++++++++++++++++++++++++	Lesion Mational Bout Menor to	
during mouth of Degrees wo recorded		well rulerest a bolo for announce	
V Sundreis		1x4 Notes Prince	300000
19 Manufacturing		list .	30000
amount of Material Transfers for	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 a Westont Son 3000 %	
month of July 1908 as remarked . R +		9 4 3 2000 22	
month of July 1908 or recorded in Beginten		1.0 9	
13/ General Expense	233344	198 Individualar Cos	300000
100 Machinery & Tools	14496	IN & the notes Payable	07 00000
n Real Estate & Building	630	Save this day our note cas says	
1. Manufacturing	802429	payable of Ullion nate Back remark to	
		Y Universe Coater + Founday Co # 3000 %	
1 Dendries		Municipal Caster & Family Co # 3000 to	
198 Individuals ras	un aven	190 Machiery & Tools	
amount of Distursements Vouchered		172 Several Extense	1003
during mostly of July 1904 as recorded in because of Declarate felicity to both		To correct error in distribution a. m. Vonales "m	(653
beginter of Distursements folios, to 6 bath		may the stone item along to Beneral Se	
		(mofts) nistered machinery & Tool	
100 Machining & To als	1082988	220-14 S 18 CN	
71 Real Estate & Building	137425		
Manufacturing	64602	37 Funiture & Fix tures	2,908
198 Individuals 7 Colo	3711269	17 General Expense	79.08
	626	Do correct error in distribution & m.	
198 Individual at Coo		Varahar + 139, march 1904 the above	
Sundries	6708,000	mistered Furniture & Textures	
amount of sales for most of July	<del></del>	matead Furniture & Firtures	
the Meanded in about	<b>!</b>	mof 2 200?	
tolow Kry to sex both will -	<del>                                      </del>		
credited as follows	ŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢ		
Deneral as hence			
	10/80		
179 Manufacturing	88 9 77 7		
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194	4				108
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	Orange	- nl august 1904			Orangen Jaugust
	1.		THIT	TITTE	
<b>IIIII</b> II		- 7		+++++	
IIIIII	Vos Bout Interest	Unpaid Bond Interest	72000	1	165 Dividend
	amount of Bone		111111	7 2000	198 Individuals Coo Garage
<b>IIIIII</b>	this day on avery	· · · · · · ·		† <del>                                     </del>	200 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	LACOLO SOLO SOLO SOLO SOLO SOLO SOLO SOLO				all the stort of the company entitled
	198 India Lucla + Cos		300000		thereto payace august 20 th 1004
	V	Sundries			100 Charles Batchelor 248,440. CIN 310, VV
	Save this day to a	Weston & Son two			
	acceptances due De	+ 20 7 31 = 1904 bespectfully			101 10 10 10 10 10 10 10 10 10 10 10 10
	payable at Ulumi Hat	Bank nework 200			9-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
	Bearing interest at 69	6			1 Thomas a Edin 236,210 236,21
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	2 200	star T. Son 1000.27		1/0000	8 M. Eilmore 163,000 203,70 0
		11 1/ 1/00.00		+++++	(or Olivar & reles
門		1 1000.75			106 Bn marrison 5000 6x 100
1	16. M. L. Receivable	70	11,111		Divided to 20
	198	Individual Cos	700000	1500000	
	A Received this day	Note from	111111-	100000	190 Machinery Tholo
1	Hational Phonon	100 1 1 2 4	THHH		122 Sound errors in distribution of 124
	at Union nate Ban	& newson 200			Voucles 21 + 14 00 may 1904
250	2 ! lation	I Thomagraph Cot Wood			18. 78 "
	Mater Receivable	19			, 203 96.7
	168	0	116000		· m/ 10.10 "
	Received thirday no	Filindual or Co		116000	The alone amounts were charged to
	Portland Cerry 10	Lated any 19th 190x	+++++-		General Expense (mostly) instead metry & Tools
	Deck Deca 2 & land	20 19	- + + + + - +		
	. I Cateorial Bank Phil	adelth: P.			179 Manufacturing
-	5 Educar	or Part land Count C' 1160 12			199 - Thompstining 3604 36
		24			of spring nator of to Thomas among to
	98 Individual ar Coo		300000		18 thomograph Ibrite spring motor 15
IIII .	South of	Sundries .			The same of the sa
	a the day live notes	to Bridgeport Brans Co			154 Salis 679218
	niterest a 6% payable	respectively, hearing			18th Jaco 18 1
	Bank newark 20	nos Clendi nato			To transfer amount standing to the
	4 Notes Payable.				andit of spring motor account to
lr Ir	4 " () "			150000	Credit of Agrang moty around to
	Dridgeport	Bross Co 1800.00		10000	
	100	" 0 1500.00		111112	46 Spring motor 679x to O'language 3
W. C.					
16/07/2.					
	82	1 17 17 17	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<b>小排料上海</b>	是是他们的现在分词,我们就是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个

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Orange 22 9 august 1.	904		Crange ng august 190x	
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1st Sales	18,5513		Sundries 31	
Jales Sales		19		
to transfer Spring Water to Others afa			amount of Disturbence Vombered during	3/96600
45 Spenig Mentor 1853 13 Phones	63		august 1504 aon or led in Rejection	
Jn			of Washinger to I a	
179 Manufacturing Manufacturing	77800		inclusive character to	
		2830 17	Y General & person	1890518
18 Thomas spring motor to thousander	N3		10 Machinery & Local	1/2/72 (0)
Jan		27	Real Estate y Brieding	266 26
Tr Sancral Expense	12/100	37	Duraitive & Fix tures	3826
195 Individualo FC		170	9 manufacturing	6295535
is transfer amount of Bales Extra		19	Industrial y Co	23 V o
Expense for mouth of august 1908				
Aron Salis Reals Reservable Ladger to			31	
Queral League		///	Y Several Expense	9070
1 Date Cents Res 12500		19	8 Individualor Cos	0,0,0
2. Late Cuts Capeansen 186 th		j+++	amount of Carl Discount allowed in	
V Lundries	<del></del>	+	prompt sellement of Bates ante Rec	
Manus Lastinia	† <del>†                                    </del>		during month of august 1904 as recorded	
a Chamark of material -	16.98	3 92	in cool Book the folio 18 to 11 vivietucine	
		#	Batis aceto Rec 3070	
		198	8 Individuals TCo	11/48
17 Senial 6x secret	382995	17	V General Expense	11.48
179 Manufacturing	2000		amount of Carl Descrient deducted	
	1284167		in prompt attlement of anti-Payale.	
193 Individuals 4-Co			dering world of any 1904 monded	
Qui drie o	28 10187			
account of Lace for most of			in clusine	
of take folion 46 to 421 to be				
17 Seural Capense				
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		33		
9) }				
		32 33 5		
		- A Y		
		<b>性温熱</b> マニットル	##4.50 P. (1975) # 1.50 P. (1975) # 1976 P. (1975) ##4.50 P. (1975) P. (1975	2

19	8					1000
						1/3.
	Oran	ge nf September 1904			Orange ng Septem	· 1004
			-  -  -	TITTE		· · · · · · · · · · · · · · · · · · ·
		154	++++-1		30	
	198 Individualo re	oo _	4900		98 Individualar Co	
1	198	Ludinidualo r Coi	++++++	49.00	172 Barral	Expense
	Cleaned this day	note from Valentine Stamp				
	co of jone month,	payable at Merchant			in settlement of aceto Payable	
	national Bank ne				during month of september 190x	
	4 Batto acto Rec	The Kept - 18 H		++++	an pattlement of acto Project and survey month of september 1924 freezeway month of september 1924 pole	- 113-to 119
	101 Bates notes accio			+++++-	30	
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	4 B-t- 0	coto Rea 199			1 Sundr	
		30			amount of sales for mouth of	aptimeter
	195 Individuals rea				1904 us recorded in abstract of	Lales
	100	Individuals & Co.	7.57.2	1	Jours 474 to 480 both wichwing to	de de
	To transfer the +	slowing assaults		1/2/20	178 General Copense	
	1 Bates acets Ore	1974 Batto anto Oce 11		†	172 Seneral topeuse	8602
	103 Weinga ton Bros	32 C march 50			190 Machinery & Jones	2,700
	3 Bates Suspense	1732 GM. Hawking 2				14190606
	2	638 EM. Hawkin Court Val			179 Manufacturing	3502
	3 Carl Dale	He School y office Super Co 50			1 Sundries	
	_3	42 School & Office Suppey Co Se 18 Gra 20 Trebott 109			195 Individu	
		.30				
119	172 General Expense		10000		Current of Disturbance 190 th Sufficience 190 th presented in Regulary of Singuistre of Singuistre 19 to 18 sections a chargest	
111	108	Individualo + Oro.		19900	recorded in Resister of sinking	
114	as transfer amounts	18 - 6 - 6 .			folis 13 to 18 melusie changes	a to
	for mostly of repters	des 1904 from Botto			17x Deveral Expense	1610070
1000	4 Pater aceto Rec	Ledges			190 Machinery & Joses	210021
	V Bate C. T. C.	1.00. %			27 Real Estate & Building	97600
	y Bates & tra Es person	100			32 Furniture & Frixtures	2600
	172 General Expense	90			179 Manufacturing	6781290
	198	2 /: : /	1002		198 Individuelico	101130
	amount of carl	Individuals & cos		V8 V2		
E .	frompt settlement	of Bate and P.			1 Sundries	
					179 Manufactes	2356338
18.0kg		falin 110 to 119	++++-+	++++	amount of Material Iranger	· 4
	both williams		+ + + + +		month of September 1904 no keeps	the state of the s
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17ª Manufacturing	123784	214 aus Catton Es 09	ي ال	
manufacturing		217 auer note Bank 10		
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18 Ohn - 127 th Spring motor	1562	MY Con Kanaas City Smalling & Ref Co Va		
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To correct more in prosting the above		no The metal co 40		
items to Convert Elicitic Co materal		108 Marris Machine Mr. 01		
Jeneral Back Co to to		13 Michael Spinsty Co 16 "		
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	╼ <u>┡</u> ╡┼┼┼┼┼┼┼┼	106 Smith & Thomas 135 3		
		vor Texas Printers Supple, Co 452.		
The state of the s		10 a a white rco os 1		
		3 Surperior Of Brown Book Volaty Co	104	
		05 Kirley Tumber Co		
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		of Maryan Crossman FE		
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1000 man 2000 man 200		THE STATE OF THE S		Gar. 1

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	accord	ent of each l	of Bate ante Re	711				11		-	Quenus of Distur	counts Vouchued				0 20 1 2	
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Orange Rf. July 1905 Oracego ng July 1905 174 Thurse Expense Judividuals The Van Individualist 600 85204711 Lucatries I credit Jos Diron Crucide Co. For amount of Sales for month of July for with cash discount deducted June 22rd as recorded in abstract of Seles fales 500 1905 but not allowed and to be aredited so follows. Joseph Dixon Cruichle Co . 45 d 74 General Expense XM Sales 180 Manufacturing General Expense 191 Machinery & Joac To correct distribution of petty cach tickes June 27 th you down to 19 June vog Sales Joseph Dixon Crucible Co 45.4 X 1189.46 To consolidate Spring motor 4 Voo Individualet Cos. Those accounts for wenth of July 1900 Individual Alors Is transfer the following amount from 45 Spring nester 1189 46 Okono national books to Works Books 100 Individual tos National Olono Co 901 Georg Faulkner 104 1 482 131 Course Expense 482 13 100 Individuals Hoo amount of card Discount deducted in prompt settlement of acute vayable during month of July 190 as secured in Chall Book of place 12 to malunium Individuals Hos To transfer the following accounts. 4 Bates acoto Rea 49 Bates auto Rea 199 William Jod les . 49 The Williams Jod Co 50 Sundries General Expense 18771037 amount of Discurreneuts Vouche Fredividuals Hos in Regenter of sistemments folio 91. amount of Cash Discount allowed in 3435 prompt settlement of Bater acuto Rec decreey month of culy 1900 as recorded in cook Book of getien 37 to 43 174 General Expense 19565754 191 Machinery V Tools ングフラフン V8 Real Estate Building 965761 64923681 Voo Frediridual Vlers Individual at leve Transferring amount of Bates Extra a general for month of gray 1705 from Bates and Re to Ended Hodge Bute Ocet Re \$100.00 2 Bate Estre Expense \$ 100 00

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foid 576 39 Jutal 2273. 76			And the second s			
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318	A		319.
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M Santal Expense Indiv	2/6	VI Clacomuto Payable	138400
m 7 and a way	Ween 126	mb Individuals	Burn 1 1.38 450
Is credit afe after Those with orisional deducted in pays	new read to day	Is transfer the fallowing account	<b>₹5</b>
Con III NA ISLL		1 Shows a Edison 2003	3
1 MSV. Thomas Yles 21/4		4 Edison Pottland Coment Co 363	#
		Edisin Chemical Works 1000	
M Individualar Con	Lundar Cero Y 72201	100 TO	
I transfer the following o		10 accounts Payable Individualant	5401
	and the state of t	To transfer fallowing ato-	Les 7 5745
1 R.S. Williams & Jons Co Fronts 7m	<u></u>	10 Towle Dicharden 540	100
C. C. L.			
2 O SWelliams Jons les Mining	y 72 - 1	197 Machining + tools	9.778.1
1/1 assomets Payasee	1357811	138 Bal Estate Bu	
Severe Benera	e Expense V 355 81	charges made against & SO. #17810 Your	endry
amount of cash suconn	& deducted	"169 73x4 June Wr July +36 Komenter which	
in prompt settlement of does	unto payalle	169 +3x4 June Wr guly +x36 Kommber which	
during month of James,	907 arrivaded		
or caretison to y falios 190 to	199.	1 Sundries	
Vor Emeral Expense (mys)	2-98.V	For amount of bills Youchus duri	ez 130707941.
, XII	o Payable V 298	month of January 1907 as record	3
The above amount was arig	mally curited	in Resister of Distruments falso	the second secon
to Several Expense Mapt of	on Petty carl	263 - 27 x Inc and to be changed	~
Cho Setton cheer # 536	test of	fallows.	476.1664.V
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	**   \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	WI accounts Payable	
no Individual atlas	104511		
aconi	to Payable V NESTI	1	
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Orangens January	907	321;
General James		Orange nd February 1907
31		2
1 Sundices		103 Bons Interest 630,000 y
Manufacturing	Y 7022276	Mupaid Bond Interest
For amount of Pow material transfer		For amount of Bond Interest due this
so recorded in agrical of January 1907.		day on compon #19
files 253-274 Ine and to be charged as fall		13 Several Expense
188 General Expense	109.70.591	76
197 machinery Votado	86891	To endit acct of R.S. Williams Kon lo
138 Backstate varieding	877,	Fronto Ceause with leach Descent
148 otherniture rotaritures	326851	deducted in payment read to day
113 Manufacturing	V875072V	1 R. S. Williams Sono les Lts 25 th
W6 Baindualsters		20
Sundiis.	224227001	165 Dividend 6018001
Far amount of bills entered in abstrac	4	WIL acts Paysace V 60.800.
of Tales during month of January 1907		For a dividend of in per share on all the start of the tempony entitled
as recorded in follow 185- 138 and to be		thereto payable February 20 30 909
185 Lewes Expuse		Clarles Betalor 48,440 shows 310 00 101
197 machining & Jools.	21069	Mo Thomas a Edison 466.750 " " 83.44 1011
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1/13 manyacturing	1224 42810	Interestinal Beach deplace 1.430.000 " " 1789. 50 10 1
	1. 70	Thomas a Edison 573, 200 0 278901   X John J Roudalph 10,000 " mo 10 (4)
$\wedge$		John & Roudalph 10.000 " 100 10 (4)
h -   -   -   -   -   -   -   -   -   -		Oliver & Wells 5,000 V . 6xx 104x
/ - \		5 M. marison 50001 , 6x 1011
		John R Schemerlow 5000 " 675 9x
1		Dividend # 30.
		of 9 :- : 1 28
	1 : : : : : : : : : : : : : : : : : : :	M Individuals of Individuals 18 / 18
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		I brawler the following accounts
	<u> </u>	1 Bates acts Rec 17 Ballo cleate acc
		10 P Some Att of 16.00 Commonwealthof Cenno 106)
		3 Suspense 1.75 Western Ulevon Talegr Co 4

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, Las never been claimed		as seconded in Register at Annie	1907
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extend of expelled present whentout		13 Manufacturing	36062591
of parker having unknown		no Individual sos	233 1.40 881
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1/1/2 1/2		amount of Sales for month of the	mary 11 11 11 11 11 11 11 11 11 11 11 11 11
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Is transfer the above amount	V 909 vo	139 to 16 both molivine and to	4
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1. Sundries		165 Dividend accounts	
NSI accounts Payable	122975731	200 Bond Interest	1290000
For amount of bills domalesed during mon			
of Jeanury 1907, as recorded in Requisite	4	4118 Furniture & Fixtures	5000 951
and to be charged as follows		Y13 Manufacturi	1 500395
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M. Funiture & Fratures	1907501	and Stating apparatus in building	-6
130 National Thomas les Interest aper	193073	and Stating apportion in Coulding	
161 account Payable	176670321	1815 1122.86	
	60241	196 Specie Shop Orders & 5003. 25	
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326				The state of the s
	<i>T</i> .	100		327:
	February 1907	The second secon	Orange & February 19.	
	38			
из ,	Nanyfacturing no e +	194984X	28	
	- Manufacture	X 19 You	213 Manufacturing	602×91×
	To transfer amount of fator & mester	de la	To chaye Phonograph account with	× 602491
	or oferend Shap Orders + 1817 47813 in when		sifferences in Raw motorial acount	
	sound to mincellamour shop and		as shown by Inventory of Tol. 10th,	
a .	count # 181 # 1269 \$ # 1813 - + 680.	2	16 Thomograph Gold? Raw Material	176
	work being done for national Phone to	2	, Sundries "	
Yo1 2	incleamour Shop arders 1949 the Special	Reparai 196	25 a accounts Cayable	
242	Sales		To amount of Second Distribution of	Y 171427
HV	Sales	46732724	Jounters for muit of Jebruary 1905	
	To transfer believe of Scrap and	- X 46 73272	folio 285 agriction of Districturements	
<b> </b>	to Thougraph account		233 Beneral Expanse	
104	Scrafo 46.73×24 Ohonograf	se 4	192 Machiny Lolo	109247
113 2			238 Real Estate Bireduigo	13/824
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	Manufacture transfer belove standing to a	X 429674	Sundreis	
	of Japaning account Felly 20 th this mediates investign of Felly 29,	6	218 Manufacturing	
2	alue + 1435	67	Faramount of second scattletition of	1906027
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	transfer the following and	Ee 1 268592	deffection of Box Testory Bosonish as shown by Tuestory February	
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5 Ex	win tehuminal Mkg 132.87	9	2.2 m / +	2167757X
			213 Manufacturing General Expense	Y 21677.67
		770,000	To transfer expenses directly chargeable to	
			Postro refo. Cos. business for fescas year	
			ending Fet. 28/07	
			195 Oluto ho Machines 21677.57	
			179 WLWO, 160 11/000	
at I townsome	36			

330	Orangs, i	2. J. February 19	907	The state of the s		Orange	- ng March 1907.		331	
a de la companya de l	Profit & Rose 28th		11634				/			
250	1/ati	Phono. Co Interest of	1,004	1 116040	69	Docounts Payable	64	10,0001		
	To debir Profix & Ross.	with amount	1.11.11.1		7	To correct outer als	Manufacturing		10,000	
	shown to Fet. 29/07 in	the account	-+			February 1906 \$ 59.	ur Voucher + 243			- 12
	credited above.					Leggett Es Bro	as + wy st			
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						or with the second of	Wax \$100 th	l::: ::  1		
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		T			1 1 1	** *. *	· Minispeg 7.41			
					99	General Expense		9.001		
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	Orangeng march 1907		Orangeng mas	cl. 1907	
	3,		31		
	9 accounts Payable accounts Payable	637131	39 Individuelathoo	- 24841008V	
	To transfer the following amount.	V 637/3	For amount of bills entired .	drees	
	Madison 460 637. To		of Sales during month of me	arel 1907	
	Rational Thomas 60 637. 13				
3/	Individual ox less	11486471	99 Euneral Expenses		
60	So transfer the following amounts  Retiral Plous to \$199 \$5	V 11 48647	199 General Expense	12.48 55 5 44	
	National Phono les 8.579 to		1 Simudrio		
	Edución sufy las 298232 2			Cayabee 1338 183/64	
Y 3	Thomas a Eduar 11.35		For amount of Bills Youckered .	Curring month	
	Vromas a dieser 1/35		of march 1903 100 1 : (1)	- 42 0	
69	associato Pagnoce	1095 991	distruments folio 28,7 to 29, in	-lawirk	
199	the spense	1 109599	99 General Expense	5718.70 374	
	amount of cual Diamounts deducted		149 Machinery Vools	9289811	Æ
	Pagade during month of mounts		You Real Estate & Building	382501	
	Osyste during month of March 1907 as recended in Coach Book & flies 17to 19.		139 Turinture Thex times	26665171	
	Laneral Expense		69 associeto Payable	4780V	8
39	3 dividualarles	9698 V			
	amount of each sien to all !!	1 96.98	1 Sundries Manufa	turing V 57 647 61	
	in prompt settlement of Butes acct		For anount of material Transfer	Ero fortend	
	Re Luxung current month as recorded in Carl Both 48 fless 11 to to both inclusive		during worth of march 1907 as.	recorded	
			si Register of Disburaments,	folio 296	
90	6 6		99 General Expense	12806694	
39	Central & pense	125001	149 Machinery & Tools	88 531	
	Course Expense Individual, 1800	1 12500	No Bal Botale Buildings	120'831	
			1/4 Puriture & Thistures	44488571	
1.	Rate and B.				
Υ.	Bate Gala Expense 175 TK		100000000000000000000000000000000000000		
		++++			
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334						29%
Orange 29 april					Orango nej april 1909	335:
39 anto Rea I acuts dea	3,9	41511	415		31	
To transfer the following accounts				69	accounts Payable	1171.444
1 Bateraccto Rec. 41 Batto aceto a.	X/	THE H	1111-1	99	General Es pen	المراتا المالية
3 Suspense 50 SN Duite Long	Bo 1				formpt settlement of amounts Payal	<del></del>
2.10 Fracker Family & Mac	Line 6 102		11111	THE RESERVE OF THE PARTY NAMED IN	month of Clarif (90)	
3 Duspense 10 CF Stateham	- 3	11-11	111-11		Carlsonk & fours st torq inclusive	
50 a Stellins 27 Lihigh Valley a.R.	Co 51					
				39	Governl Expense accounts Receive	68151
69 accounts Payable	/2-	66 41 V			Smount of Cash Disounts allowed -	ble 1. 68 15
	2	1	266 KI		prompt settlement of Bate acuts the	
To transfer following Te to Book of national Mo.	4				for month of april 1907 as readed.	<u> </u>
10 National Okono Co 1766. The Edison Postland Co	Emple II			,	Betes accounts Receivable \$ 68 th	
00 8 08.1						
29 General Es pense accounts Recional		7051		199	General Expense	8.5 V
To credit year M. Ihome theo		Y 1	1.708	. 69	To create and and Comments Pay and	ee
syponts canada with 2 % carl Deren					To credit godin Johnson Co account with Dimount deducted in oregoy	X
deducted in payment, sead this day		4	111		about for overfagment second agr 17 for \$ 413	44.
1 MH Thomaste Let & 128						— : · · · · · · · · · · · · · · · · · ·
	_   : :   :	1 : 11		34	General Expense accounts Reserve	ble / 10000
19 General Expense		61321		/	To transfer amount of Bates Extre &	pane .
Donais the following accounts were			6132		for month of april 1967 from Bate ac	***
cond Domount setules in april paymen	Z			- 1	Bates accounts Receivable \$ 100 %.	
1 deut cr				2	Botes Exter Expense 100 2	
1 as Williams Wood lo Front 37,73						
Not Thomsolo " " Miningy 16.08	1	4 111	111 - 1	39	accounts Asservable Sundries	277 518 161
1 Oct Xelly 675	1 3 11 1		11		amount of Soles for movel	
					of april 1907 as revended in.	
19 General Expense		8561			altract of Sales fales 17x to 18 both with the west	7
I credit the following account	- 1 - 1 - 1 - 1	- V	1856		both inclusive, and to be endeter	
with cash Discount defeated in	x i	1-1-1-1	+++++	99	General Expense	y 344'89
ned this day				159	Sales	127786305
1 72N. Showerles Lits 18561			III.			
1022	-+-+		-			
			+++			
		7	111111			A STATE OF THE STA

336 Oranga 2 g apris 30°	\$ 1907	Osanze 29 may 1907	337
Sundries		an#	The state of the s
accounts Payas		419 Dividens	6018001
For amount of Balls roundered lumin month of april 1907 as remarked in Register of Dishuramounts folior 290-	7	To dividend of 1th h.	1-21
Register of Dishuments falios 298-	2.8		
In and to be changed as follows		the stook of the company entitled the	nits
1. Ceneral Expense	44462491	tokales Batchelor 248, Wo show alk	310,00 /01
149 machiny vistolo	344160 V	Mrs Thomas a Edison 466 700 "	V83 X4/01
139 Furnitus Festures	407324	Many Banakinclose No.000.	317.56/01
9 automobile	30,000	International Emphophaeles 1430.000 0 "	787.00/0/
149 manufacturing	20351160V	Johnts Rausolph 10000.	12.50/01
69 account Payace	60257	ma Esienore 163,000	20375/02
Sundries "		John Schemenhow 5.000	6x6 9
Wannfastuning	17089355	ES Oriceipo 5.000 " "	6×102
For amount of motional Transfer		31	
Billie . Posichered during month of april 10	2	39 accounts Accerable	137.1
governded in Right of andinement of Second and fallow		To transfer the following account	
The second of places	14100 264	1 Bate acet as 137 Bute acet	
Na Real Estate rainedings	50 You /	8 Public Service Corps of Kg 34 Duspen	
130 Turniture Flertines	50951	100 Parken & Longley co or	- 4
Wa manufacturing	188894	104 Railway y M. Ca. 10	4
		103 allington Paper to 12 1	
39 account accurable accounts Orgable	28899021	109 N. E. Stone 59 "	
To transfer the following amounts	12489902	50 Edgar Brewster of F & Reuf	au 1/0
Rational Others too 23046 to	10	: 69 Ascounts Payable 2 + Co	798V-V
Edwin By Co 1761, 20 5 Cilian Chamine Work 118. 50	?		1 7985 V
V Educin Sterege Battay 17 51	19	101 Stewarfer following them to compe not Newtony Birdyn & Steward Bell a 67 8. Len 241 January M. Laughberry Van 1200	was afe
3 Thomas a Edward 6.76		201 Rewburgh Bridge & Structure estable 69 8 1200	" 101
	471111111111111111111111111111111111111		
		99 General Expense	17500 V
		39 accounts acce	walla
		39 To transfer amount of Beter le to be prese of many 190 from Beter auto Recom	ese.
The second secon	No.	1 Bates accounts accorable \$145.00	
the state of the s		V Bates Exten Expense 175 %	

33				339:
	Orange ng may 1907		Orange ng may	7.190)
	31			
	39 ascornets Resemble	260125141	49 General Expense	
	Sundries		1 39 acouste Re	66624
	an recorded in abstract of Sales	<b>}</b> <del>}</del>	amount at Carl, a. + . co. 1-	0007
	so recorded in abstract of Vales		Reservable during month of May 1900 Manded in Carl Book & folior 30 to 28 in	7.00
	Jolio 187 to 200 both milusive and to	│────────────────────────────────────	recorded in Carl Book #8 folios 30 to 38 in	-lusine
	94 General Expense	V 18271	· Sundries "	
	749 Machiny Lools	1200		
	749 Machiny + Trace	1260 29535	For amount of Row moterial Fran	17735745
	1		Yourhered during month of me	-gus
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